

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:08:20 ON 12 SEP 2009

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2009 HIGHEST RN 1182870-06-9

DICTIONARY FILE UPDATES: 11 SEP 2009 HIGHEST RN 1182870-06-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

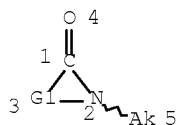
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que stat l13

L2 STR



REP G1=(1-4) C

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GGCAT IS UNS AT 5

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

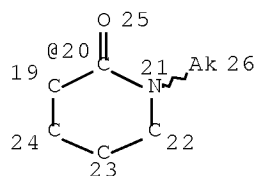
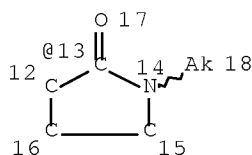
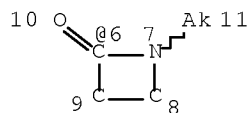
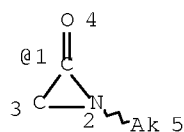
RSPEC I

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L3 31684 SEA FILE=REGISTRY SSS FUL L2

L10 STR



G1 2

7

Page 1-B

VAR G1=1/6/13/20

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CONNECT IS E1  RC AT   18
CONNECT IS E1  RC AT   26
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GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

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=&gt; d his

(FILE 'HOME' ENTERED AT 14:27:45 ON 12 SEP 2009)

FILE 'REGISTRY' ENTERED AT 14:28:08 ON 12 SEP 2009

ACT PEZ796AU/A

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ACT PEZ796/A

L2 STR

L3 31684 SEA FILE=REGISTRY SSS FUL L2

L4 1 S L1 AND L3

FILE 'LREGISTRY' ENTERED AT 14:29:23 ON 12 SEP 2009

L5 STR L2

FILE 'REGISTRY' ENTERED AT 14:32:21 ON 12 SEP 2009

L6 50 S L5 SSS SAM SUB=L3

L7 21467 S L5 SSS FUL SUB=L3

SAV L7 PEZ796S1/A

L8 4 S L1 AND PMS/CI

L9 380939 S PACR/PCT

L10 STR L5

L11 50 S L10 SSS SAM SUB=L3

L12 12637 S L10 SSS FUL SUB=L3

SAV L12 PEZ796S2/A

L13 6132 S L12 NOT NR&gt;1

L14 4800 S L13 AND PMS/CI

L15 380939 SS L9 OR L9

L16 190940 S L15 RAN=(,187284-17-9)

L17 189999 S L15 NOT L16

FILE 'HCAPLUS' ENTERED AT 14:49:15 ON 12 SEP 2009

L18 5548 S L13(L)PREP+ALL/RL

L19 QUE SALT

L20 647 S L18 AND L19

L21 491493 S L16

L22 83505 S L17

L23 405 S L20 AND L21-22

FILE 'REGISTRY' ENTERED AT 14:56:44 ON 12 SEP 2009

L24 2 S L1 AND L16

L25 173568 S L16 AND ACID/CNS

L26 169240 S L17 AND ACID/CNS

FILE 'HCAPLUS' ENTERED AT 14:58:49 ON 12 SEP 2009

L27 378626 S L25

L28 74528 S L26

L29 8127 S L24

L30 19 S L23 AND L29

L31 360 S L23 AND L27-28

L32 42287 S L4

L33 10 S L30 AND L32

L34 QUE INITIAT?

L35 70 S L31 AND L34

L36 QUE COLLOID OR DISPERS?

L37 19 S L35 AND L36

L38 36 S L30 OR L37

L39 36 S L38 OR L33

L40 28 S L39 AND (PY<=2004 OR PRY<=2004 OR AY<=2004)

L41 52322 S L14

L42 27 S L40 AND L41

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 15:08:29 ON 12 SEP 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 12 Sep 2009 VOL 151 ISS 12

FILE LAST UPDATED: 11 Sep 2009 (20090911/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> d ibib abs hitstr hitind 140 1-28

L40 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:819652 HCAPLUS Full-text

DOCUMENT NUMBER: 151:132306

TITLE: Medical adhesive materials having specified fabrics for external usage

INVENTOR(S): Iida, Norio; Goto, Hajime; Inoue, Kimiko; Kamata, Susumu

PATENT ASSIGNEE(S): Lion Corp., Japan; NI Teijin Shoji Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 19pp., Division of Jpn. Kokai Tokkyo Koho Appl. 97 358,419.

CODEN: JTXXFF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 4290626	B2	20090708	JP 2004-280061	20040927
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JP 2005154414	A	20050616		
JP 11188054	A	19990713	JP 1997-358419	19971225
			<--	
PRIORITY APPLN. INFO.:			JP 1997-358419	A3 19971225

AB The invention relates to a medical adhesive fabric material suitable for use in a transdermal patch, wound dressing, etc., which stretches well along with the body movement without causing wrinkles and leakage, wherein the material consists of (a) a base fabric with specified properties (fiber d. of 80-220 g/m<sup>2</sup>, etc.) made by three-step both-side knitting of thermoplastic polymer multifilaments, and (b) an adhesive layer containing aqueous adhesive composition containing crosslinked polyacrylic acid or polyacrylate salt.

IT 103719-07-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(adhesive layer containing; medical adhesive materials having specified fabrics for external usage)

RN 103719-07-9 HCAPLUS

September 12, 2009

10/591,796

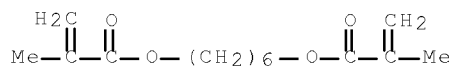
5

CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,6-hexanediyl) ester, polymer  
with 1-ethenyl-2-pyrrolidinone and 2-ethylhexyl 2-propenoate (CA  
INDEX NAME)

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CRN 6606-59-3

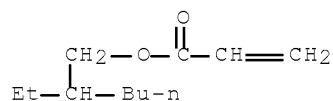
CMF C14 H22 O4



CM 2

CRN 103-11-7

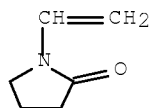
CMF C11 H20 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



IT 9003-01-4, Polyacrylic acid 9003-04-7, Sodium  
polyacrylate  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(adhesive layer containing; medical adhesive materials having  
specified fabrics for external usage)

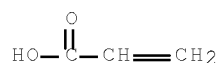
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

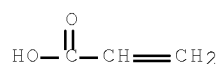
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 40

IT ~~103719-07-9P~~

RL: SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREF (Preparation); USES (Uses)

(adhesive layer containing; medical adhesive materials having specified fabrics for external usage)

IT 53-86-1, Indomethacin 58-95-7, Tocopherol acetate 76-22-2, dl-Camphor 87-28-5, Glycol salicylate 2216-51-5 5104-49-4, Flurbiprofen 9003-01-4, Polyacrylic acid

9003-04-7, Sodium polyacrylate 22071-15-4, Ketoprofen

22204-53-1, Naproxen

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(adhesive layer containing; medical adhesive materials having specified fabrics for external usage)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L40 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1154599 HCAPLUS Full-text

DOCUMENT NUMBER: 143:423029

TITLE: Aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts

INVENTOR(S): Christoffels, Lysander; Widmaier, Ralf; Stein, Stefan; Torres, Llosa Jose Maria; Garcia, Castro Ivette

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Torres Llosa, Jose Maria; Garcia Castro, Ivette

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005100416	A1	20051027	WO 2005-EP3921	20050414
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EP 1740625	A1	20070110	EP 2005-759106	20050414
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EP 1740625	B1	20070912		
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JP 2007532735	T	20071115	JP 2007-507756	20050414
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US 20070197721	A1	20070823	US 2006-591796	20060906
PRIORITY APPLN. INFO.:				DE 2004-102004019181A
				20040416
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WO 2005-EP3921				W
				20050414

## OTHER SOURCE(S): MARPAT 143:423029

AB A method for producing water-in-water ~~dispersions~~ of polyvinyl lactams with a K-value of 30-110 by radically initiated polymn.in aqueous reaction media containing protective ~~colloids~~ and saturated with organic or inorg. ~~salts~~ is described. The prepared aqueous ~~dispersions~~ of polyvinyl lactams can be used in cosmetics, pharmaceuticals, adhesives, as heat carrier liqs., as well as in formulations for coatings, thinners, adsorbents, binders, ceramics, plastics and metalworking. Thus, a polyvinyl lactam ~~dispersion~~ was prepared by dissolving 80 g of sodium sulfate in 431 g of deionized water containing 177 g of 22.5 % aqueous solution of hydrolyzed acrylic acid-vinylformamide copolymer

(3:7 ratio) treated with NaOH, adding 5% solution of sulfuric acid till pH of 6.8, heating this mixture at 60° and adding 320 g of N-vinyl-2-pyrrolidone, followed by aqueous solution of 0.5 g of 2,2'-azobis(2-methylpropanimidamide) dihydrochloride (V 50) in 47.5 g of deionized water, keeping at 60° for 3 h, adding an aqueous solution of V 50 (1 g of V 50 in 9 g of deionized water) and heating reaction vessel to 75° for 2 h; the K-value of the obtained polyvinylpyrrolidone dispersion was 77 with viscosity of 1.5 Pas and solids content of 30 %.

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM  
 (Technical or engineered material use); PREP (Preparation)  
 ; USES (Uses)  
 (aqueous polyvinyl lactam dispersions produced in protective  
 colloidal media saturated with salts)

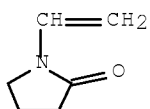
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 9003-04-7, Polyacrylic acid, sodium salt  
 134367-40-1D, hydrolyzed, sodium salt  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (protective colloid; aqueous polyvinyl lactam  
 dispersions produced in protective colloidal media saturated  
 with salts)

RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

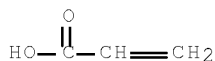
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 134367-40-1 HCAPLUS

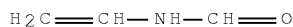
CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)



CM 1

CRN 13162-05-5

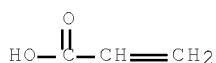
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



- IC ICM C08F026-10  
ICS C08F002-10; C21D001-60; C09J005-00
- CC 37-3 (Plastics Manufacture and Processing)  
Section cross-reference(s): 55
- ST polyvinyl lactam aq dispersion prepn salt satd  
protective colloid media
- IT Lactams  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(N-vinyl, polymers; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT Disperse systems  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT Adhesives  
Metalworking  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts for)
- IT Ceramics  
Cosmetics  
Drugs  
Inks  
Thickening agents  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts in)
- IT Plastics, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts in)
- IT Adsorbents  
Binders  
Coating materials  
Detergents  
Pigments, nonbiological  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts in preparation of)
- IT Polymerization

- (dispersion, radical; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts by)
- IT Salts, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(inorg. and org; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts )
- IT Lubricating oils  
(metalworking, coolants; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts as)
- IT Quenching materials  
(metalworking; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts in)
- IT Colloids  
(protective, anionic and cationic; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT Polymerization catalysts  
(radical; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT Carboxylic acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(salts, C1-C15; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts )
- IT 2997-92-4, V 50  
RL: CAT (Catalyst use); USES (Uses)  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT 9003-04-7, Polyacrylic acid, sodium salt  
28133-65-5, Maleic anhydride-methylvinyl ether copolymer, sodium salt 134367-40-1D, hydrolyzed, sodium salt  
RL: NUU (Other use, unclassified); USES (Uses)  
(protective colloid; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)
- IT 6132-04-3, Trisodium citrate, dihydrate 7757-82-6, Sodium sulfate, anhydrous, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(salt in colloidal media; aqueous polyvinyl lactam dispersions produced in protective colloidal media saturated with salts)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2005:1154598 HCAPLUS Full-text  
DOCUMENT NUMBER: 143:423028  
TITLE: Method for producing a water-in-water polyvinyl lactam dispersion by radical

polymerization in presence of salts  
and anionic dispersants

INVENTOR(S): Chrisstoffels, Lysander; Widmaier, Ralf; Garcia,  
Castro Ivette; Wegmann, Ludger

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Garcia Castro,  
Ivette

SOURCE: PCT Int. Appl., 26 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005100415	A1	20051027	WO 2005-EP3915	20050414
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PRIORITY APPLN. INFO.:				DE 2004-102004019179A
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WO 2005-EP3915				W

200504

14

OTHER SOURCE(S): MARPAT 143:423028

AB A method for producing water-in-water polyvinyl lactam dispersions with a K value of  $\geq 120$  in aqueous reaction media in the presence of anionic polymer dispersants and saturated with organic or inorg. salts by radical polymerization of N-vinyl-2-pyrrolidone is described. The homo- or copolymers of ethylenically unsatd. C1-15 carboxylic acids, or sulfonic acids or their corresponding salts are used as anionic polymer dispersants. The prepared aqueous dispersions of polyvinyl lactams can be used in cosmetics, pharmaceuticals, adhesives, heat carrier liqs., as well as in formulations for coatings, thinners, adsorbents, binders, ceramics, plastics and metalworking. Thus, a polyvinyl lactam dispersion was prepared by dissolving 63.4 g of sodium sulfate in 330 g of deionized water containing 148 g of 20 % aqueous solution of hydrolyzed acrylic acid-vinylformamide copolymer (9:1 ratio) treated with NaOH, adding 5 % solution of sulfuric acid till pH of 6.8, heating this mixture at 60° for 2 h and 40 min, adding 233.4 g of N-vinyl-2-pyrrolidone, followed in 5 min by solution of 0.35 g of 2,2'-azobis(2-methylpropanimidamide) dichloride (V 50) in 55.9 g of deionized water, keeping reaction vessel at 60° for 3 h, heating reaction mixture to 75° and adding solution of 0.7 g of V 50 in 13 g of deionized water, and keeping at 75° for two hours; the K value of the obtained polyvinyl lactam dispersion was 141, the viscosity was 10.3 Pas with solids content of 27.65.

IT 134367-40-1D, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersant; water-in-water polyvinyl lactam dispersions prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

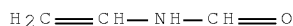
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

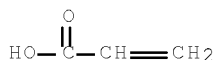
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM

(Technical or engineered material use); PREP (Preparation)

; USES (Uses)

(water-in-water polyvinyl lactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts)

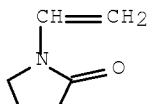
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM C08F026-10

ICS C08F002-20

CC 37-3 (Plastics Manufacture and Processing)

ST polyvinyl lactam aq dispersion prepn salt anionic polymer dispersant media

IT Lactams

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(N-vinyl, polymers; water-in-water polyvinyl lactam dispersions

prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT Dispersing agents

(anionic; water-in-water polyvinyl lactam dispersions prepared by

radical polymerization in aqueous media containing anionic polymer

dispersants

and saturated with salts for use in)

IT Disperse systems

(aqueous; water-in-water polyvinyl lactam dispersions prepared by

radical polymerization in aqueous media containing anionic polymer

dispersants

and saturated with salts)

IT Polymerization

(dispersion, radical; water-in-water polyvinyl lactam dispersions

prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT Quenching materials

(metalworking; water-in-water polyvinyl lactam dispersions prepared

by radical polymerization in aqueous media containing anionic polymer

dispersants and saturated with salts for use in)

IT Salts, uses

RL: NUU (Other use, unclassified); USES (Uses)

(organic and inorg.; water-in-water polyvinyl lactam dispersions

prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT Polymerization catalysts

(radical, dispersion; water-in-water polyvinyl lactam dispersions

prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT Carboxylic acids, uses

RL: NUU (Other use, unclassified); USES (Uses)

(salts, C1-C15; water-in-water polyvinyl lactam

dispersions prepared by radical polymerization in aqueous media containing

anionic

polymer dispersants and saturated with salts)

IT Metalworking

(water-in-water polyvinyl lactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and

saturated

with salts)

IT Adhesives

Adsorbents

Binders

Coating materials

Coolants

Cosmetics

Detergents

Drugs

Inks

Pigments, nonbiological

Thickening agents

(water-in-water polyvinyl lactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and

saturated

with salts for use in)

IT Plastics, miscellaneous

RL: MSC (Miscellaneous)

(water-in-water polyvinyl lactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and

saturated

with salts for use in)

IT Ceramics

(water-in-water polyvinyl lactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and

saturated

with salts for use in in formulations for)

IT 134367-40-1D, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersant; water-in-water polyvinyl lactam dispersions

prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT 28133-65-5, Maleic anhydride-methylvinylether copolymer, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersion media; water-in-water polyvinyl lactam

dispersions prepared by radical polymerization in aqueous media containing

anionic

polymer dispersants and saturated with salts)

IT 2997-92-4, V 50

RL: CAT (Catalyst use); USES (Uses)

(water-in-water polyvinyl lactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and

saturated

with salts)

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM

(Technical or engineered material use); PREP (Preparation)

; USES (Uses)

(water-in-water polyvinyl lactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts)

IT 6132-04-3, Trisodium citrate dihydrate 7757-82-6, Sodium sulfate, uses

RL: NUU (Other use, unclassified); USES (Uses)

(water-in-water polyvinyl lactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:200109 HCAPLUS Full-text

DOCUMENT NUMBER: 140:236500

TITLE: Production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396508	A1	20040310	EP 2002-19907	20020904

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 WO 2004022615 A1 20040318 WO 2003-EP9597 20030829

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
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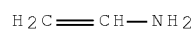
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EP 1546224	B1	20060517		
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PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1678649	A	20051005	CN 2003-821001	200308 29
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JP 2005537374	T	20051208	JP 2004-533421	200308 29
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AT 326490	T	20060615	AT 2003-793769	200308 29
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ES 2263060	T3	20061201	ES 2003-793769	200308 29
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US 20060116470	A1	20060601	US 2005-525587	200502 25
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PRIORITY APPLN. INFO.:		EP 2002-19907	A	200209 04
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		WO 2003-EP9597	W	200308 29
				<--
AB	Water-soluble or water-swellaable cationic polymers are prepared by (i) free-radically initiated copolymn. of monomer mixts. in water comprising (a) 1-99% of a cationic monomer or quaternizable monomer, (b) 1-99% of a water-soluble monomer, (c) 0-10% of a bi- or polyfunctional, free-radically copolymerizable monomer, adjusting the amts. (a) to (c) in such a way that the resulting polymer has an overall pos. charge, in the presence of 1-100% of the amount of a salt which is necessary to saturate the reaction medium with said salt and in the presence of 0.1 to 20% referred to the weight of the dispersion, of an amphoteric dispersant having an overall neg. charge, and (ii) subsequent quaternization of the polymer if the monomer (a) employed is a non-quaternized monomer is disclosed. A dimethylaminoethyl methacrylate di-Et sulfate salt-vinylpyrrolidone copolymer was prepared in the presence of an acrylic acid-vinyl amine copolymer dispersant.			
IT	30916-76-8P, Acrylic acid-vinyl amine copolymer 73565-51-2P 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, hydrolyzed RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (dispersant; production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)			
RN	30916-76-8 HCAPLUS			
CN	2-Propenoic acid, polymer with ethenamine (9CI) (CA INDEX NAME)			



CM 1

CRN 593-67-9

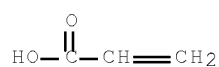
CMF C2 H5 N



CM 2

CRN 79-10-7

CMF C3 H4 O2



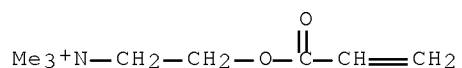
RN 73565-51-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 44992-01-0

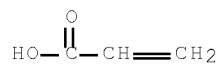
CMF C8 H16 N O2 . Cl



CM 2

CRN 79-10-7

CMF C3 H4 O2



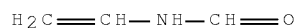
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

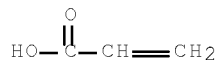
CMF C3 H5 N O



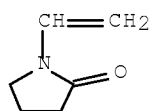
CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 88-12-00F, polymers with quaternized vinylimidazole  
 27015-38-9P 99588-80-4P 220226-78-8P  
 RL: IMF (Industrial manufacture); TEM (Technical or  
 engineered material use); PREP (Preparation); USES (Uses)  
 (production of aqueous dispersions of cationic homo- and  
 copolymers using amphoteric protective colloids)  
 RN 88-12-0 HCAPLUS  
 CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)

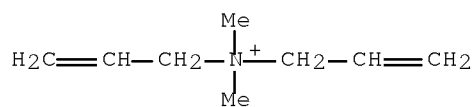


RN 27015-38-9 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1),  
 polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 7398-69-8

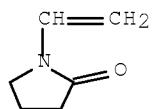
CMF C8 H16 N . Cl



CM 2

CRN 88-12-0

CMF C6 H9 N O



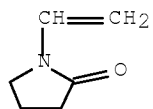
RN 99588-80-4 HCAPLUS

CN Ethanaminium, N-ethyl-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, ethyl sulfate (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



CM 2

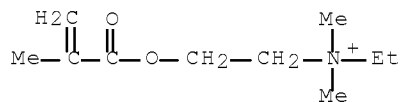
CRN 13223-03-5

CMF C10 H20 N O2 . C2 H5 O4 S

CM 3

CRN 48063-69-0

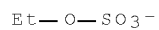
CMF C10 H20 N O2



CM 4

CRN 48028-76-8

CMF C2 H5 O4 S



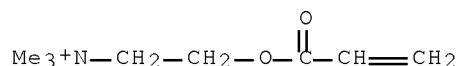
RN 220226-78-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,  
polymer with N-ethenylformamide (9CI) (CA INDEX NAME)

CM 1

CRN 44992-01-0

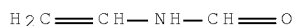
CMF C8 H16 N O2 . Cl



CM 2

CRN 13162-05-5

CMF C3 H5 N O



IC ICM C08F220-34

ICS C08F220-04

CC 37-3 (Plastics Manufacture and Processing)

ST cationic polymer dispersion amphoteric protective  
colloid

IT Dispersing agents

(amphoteric; production of aqueous dispersions of cationic  
homo- and copolymers using amphoteric protective colloids  
)

IT Quaternization

(production of aqueous dispersions of cationic homo- and  
copolymers using amphoteric protective colloids)

IT Polymerization

(radical; production of aqueous dispersions of cationic homo-  
and copolymers using amphoteric protective colloids)

IT 30916-76-8P, Acrylic acid-vinyl amine copolymer

73565-51-2P 134367-40-1DP, Acrylic

acid-N-vinylformamide copolymer, hydrolyzed

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PREP (Preparation); USES (Uses)

(dispersant; production of aqueous dispersions of  
cationic homo- and copolymers using amphoteric protective  
colloids)

IT 88-12-0DP, polymers with quaternized vinylimidazole

13162-05-5DP, N-Vinylformamide, polymers with quaternized

vinylimidazole 27015-38-9P 29383-23-1DP,

Vinylimidazole, quaternized, polymers with vinylformamide

99588-80-4P 155368-64-2P 220226-78-8P

RL: IMF (Industrial manufacture); TEM (Technical or

engineered material use); PREP (Preparation); USES (Uses)

(production of aqueous dispersions of cationic homo- and

copolymers using amphoteric protective colloids)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:656479 HCAPLUS Full-text

DOCUMENT NUMBER: 139:192919

TITLE: Preparation of acryloyldimethyltaurate polymers as adjuvants in pesticide formulations

INVENTOR(S): Walter, Michael Marcus; Morschhaeuser, Roman; Zerrer, Ralf

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: PCT Int. Appl., 43 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003067981	A1	20030821	WO 2003-EP1272	20030210

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W: BR, CA, MX, US

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR

DE 10206468	A1	20030828	DE 2002-10206468	20020216
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&lt;--

PRIORITY APPLN. INFO.: DE 2002-10206468 A 20020216

&lt;--

AB The invention relates to pesticide formulation adjuvants containing at least one copolymer, obtained by radical copolymn. of (A) acryloyldimethyltaurine acid and/or acryloyldimethyltaurates, (B) optionally, one or more other olefinically-unsatd., noncationic comonomers, (C) optionally one or more olefinically-unsatd., cationic comonomers, (D) optionally one or more components containing silicon, (E) optionally one or more components containing fluorine, (F) optionally one or more macromonomers, (G) whereby the copolymn. occurs optionally in the presence of at least one polymer additive, (H) under the proviso that component (A) is copolymd. with at least one component selected from one of the groups (D) to (G).

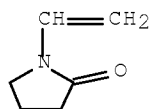
IT 88-12-0DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 102583-40-4DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 134367-40-1P 433922-59-9DP, salts 434942-13-9DP, salts 434942-13-9P 582309-44-2DP, salts 582309-45-3DP, salts 582309-46-4DP, salts 582309-47-5DP, salts 582309-48-6DP, salts 582315-49-9DP, salts 582315-50-2DP, salts

582315-52-4DP, salts 583024-29-7DP,  
salts

RL: MOA (Modifier or additive use); SPN (Synthetic  
preparation); PREP (Preparation); USES (Uses)  
(preparation as adjuvant in pesticide formulations)

RN 88-12-0 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



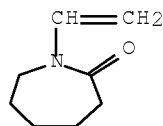
RN 102583-40-4 HCAPLUS

CN 2-Propenoic acid, polymer with 1-ethenylhexahydro-2H-azepin-2-one  
(9CI) (CA INDEX NAME)

CM 1

CRN 2235-00-9

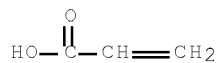
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CM 2

CRN 79-10-7

CMF C3 H4 O2



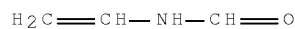
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

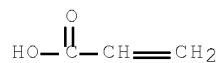
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



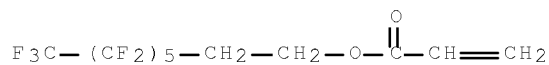
RN 433922-59-9 HCAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 17527-29-6

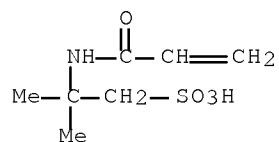
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CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 434942-13-9 HCAPLUS

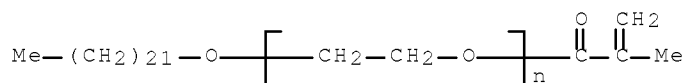
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)<sub>n</sub> C26 H50 O2

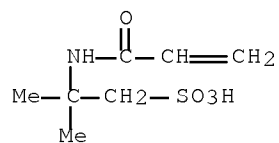
CCI PMS



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 434942-13-9 HCAPLUS

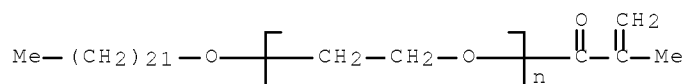
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propen-1-yl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)<sub>n</sub> C26 H50 O2

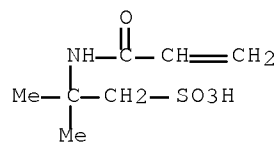
CCI PMS



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-44-2 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

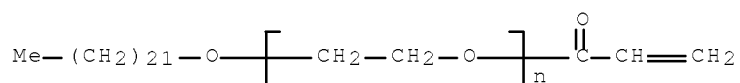
CM 1

CRN 582309-43-1

CMF (C2 H4 O)<sub>n</sub> C25 H48 O2

CCI PMS

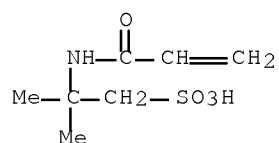




CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-45-3 HCAPLUS

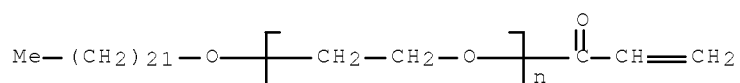
CN 2-Propenoic acid, 2-ethyl-2-[[ (1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 582309-43-1

CMF (C2 H4 O)<sub>n</sub> C25 H48 O2

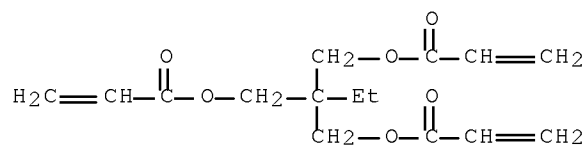
CCI PMS



CM 2

CRN 15625-89-5

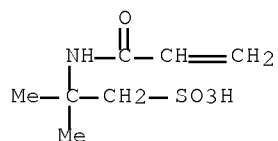
CMF C15 H20 O6



CM 3

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-46-4 HCAPLUS

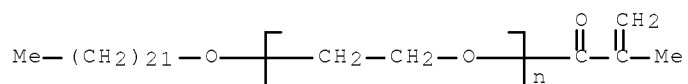
CN 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)<sub>n</sub> C26 H50 O2

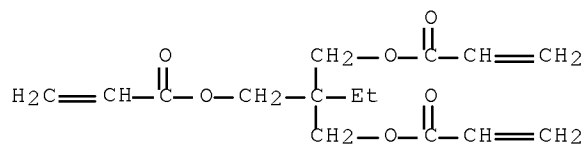
CCI PMS



CM 2

CRN 15625-89-5

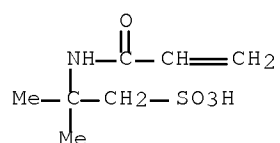
CMF C15 H20 O6



CM 3

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-47-5 HCAPLUS

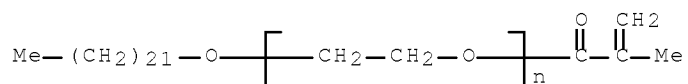
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)<sub>n</sub> C26 H50 O2

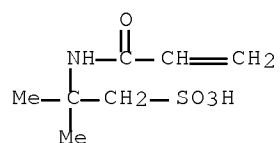
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CM 2

CRN 15214-89-8

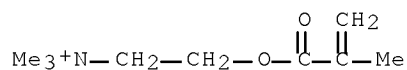
CMF C7 H13 N O4 S



CM 3

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



RN 582309-48-6 HCAPLUS

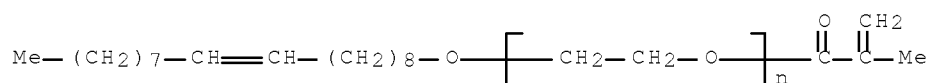
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with N-ethenylformamide, 2-ethyl-2-[[ (1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -(9Z)-9-octadecenyl oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 176110-19-3

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_{22} \text{ H}_{40} \text{ O}_2$$

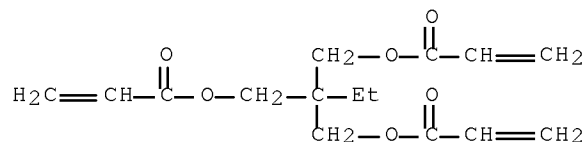
CCI    PMS



CM 2

CRN 15625-89-5

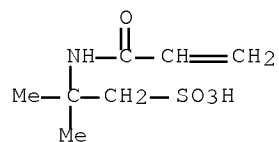
CMF C15 H20 O6



CM 3

CRN 15214-89-8

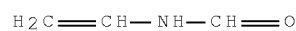
CMF C7 H13 N O4 S



CM 4

CRN 13162-05-5

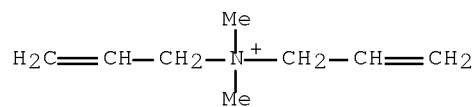
CMF C3 H5 N O



CM 5

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl-

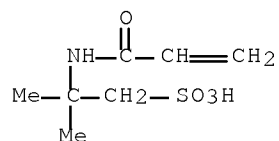
RN 582315-49-9 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,  
polymer with Silwet 867 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

CRN 582315-48-8

CMF C4 H6 O2 . x Unspecified

CM 3

CRN 306773-13-7

CMF Unspecified

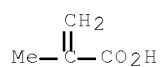
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 4

CRN 79-41-4

CMF C4 H6 O2



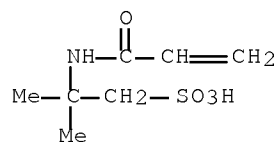
RN 582315-50-2 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,  
polymer with N,N'-methylenebis[2-propenamide] and Silwet 867  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

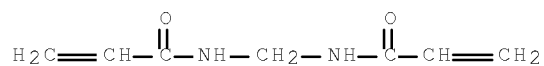
CMF C7 H13 N O4 S



CM 2

CRN 110-26-9

CMF C7 H10 N2 O2



CM 3

CRN 582315-48-8

CMF C4 H6 O2 . x Unspecified

CM 4

CRN 306773-13-7

CMF Unspecified

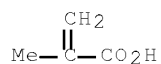
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 79-41-4

CMF C4 H6 O2



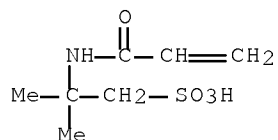
RN 582315-52-4 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,  
polymer with N,N'-methylenebis[2-propenamide] and Silwet 867  
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

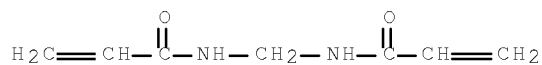
CMF C7 H13 N O4 S



CM 2

CRN 110-26-9

CMF C7 H10 N2 O2



CM 3

CRN 582315-51-3

CMF C3 H4 O2 . x Unspecified

CM 4

CRN 306773-13-7

CMF Unspecified

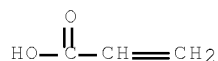
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 583024-29-7 HCAPLUS

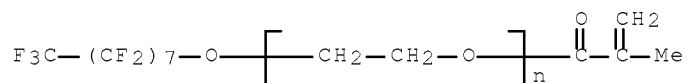
CN Sorbitan, mono-(9Z)-9-octadecenoate, polymer with  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -  
 [(heptadecafluorooctyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX  
 NAME)

CM 1

CRN 434286-58-5

CMF (C2 H4 O)<sub>n</sub> C12 H5 F17 O2

CCI PMS



CM 2

CRN 1338-43-8

CMF C24 H44 O6

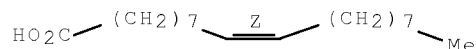
CCI IDS

CM 3

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.

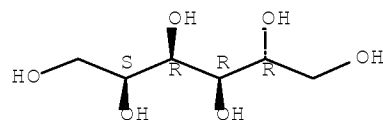


CM 4

CRN 50-70-4

CMF C6 H14 O6

Absolute stereochemistry.



IC ICM A01N025-10

ICS A01N025-30

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 38

IT 79-06-1DP, Acrylamide, polymers with fatty alc. derivs. of  
 (meth)acrylic and unsatd. monomers 88-12-0DP, polymers  
 with fatty alc. derivs. of (meth)acrylic and unsatd. monomers



96-05-9DP, Allyl methacrylate, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 110-26-9DP, Methylenebisacrylamide, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 868-77-9DP, 2-Hydroxyethyl methacrylate, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 1338-43-8DP, Span 80, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 1746-03-8DP, Vinylphosphonic acid, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 5039-78-1DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 7398-69-8DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 13162-05-5DP, n-Vinylformamide, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 15214-89-8DP, fatty alc. derivs. of (meth)acrylic and unsatd. monomers 15214-89-8DP, AMPS, polymers with ethoxylated C12-15-alkyl acrylates and itaconates, salts 15625-89-5DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 26403-58-7DP, Polyethylene glycol monoacrylate, C12-15-alkyl ethers, polymers with AMPS, salts 26915-72-0DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 45708-78-9DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 102583-40-4DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 134367-40-1P 190735-24-1DP, Fluowet ac 812, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 214559-58-7DP, C12-15-alkyl ethers, polymers with AMPS, salts 433922-59-9DP, salts 434286-58-5DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 434286-60-9DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 434942-13-9DP, salts 434942-13-9P 582309-44-2DP, salts 582309-45-3DP, salts 582309-46-4DP, salts 582309-47-5DP, salts 582309-48-6DP, salts 582315-49-9DP, salts 582315-50-2DP, salts 582315-52-4DP, salts 583024-29-7DP, salts

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(preparation as adjuvant in pesticide formulations)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:428954 HCAPLUS Full-text

DOCUMENT NUMBER: 137:21790

TITLE: Compositions containing copolymers based on acryloylaminodimethylethanesulfonic acid and synergistic additives

INVENTOR(S): Morschhaeuser, Roman; Kayser, Christoph; Loeffler, Matthias; Heier, Karl Heinz; Tardi, Aranka; Schade, Manfred; Botthof, Gernold

PATENT ASSIGNEE(S): Clariant Gmbh, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 16

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
WO 2002044230	A2	20020606	WO 2001-EP13859	200111 28
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WO 2002044230	A3	20021031		
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,				
NL, PT, SE, TR				
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September 12, 2009

10/591,796

35

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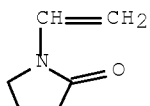
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	WO 2001-EP13859	W	200111 28
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AB	The invention relates to compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts, in addition to synergistic additives, selected from anionic, cationic, nonionic and/or betaine surfactants. Said compns. are characterized by a distinctive thermoassociative behavior and are particularly suitable as thickeners.		
IT	88-12-0DP, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone 9003-01-4DP, Polyacrylic acid,		

reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-05-8DP, Polyacrylamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-39-8DP, K-30, reaction products with copolymers of acryloylaminodimethylethanesulfonate salts 25087-26-7DP, Polymethacrylic acid, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 434337-19-6P 434337-20-9P 434938-17-7P 435278-89-0P

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses) (compsn. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

RN 88-12-0 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



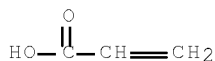
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-05-8 HCAPLUS

CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

CRN 79-06-1

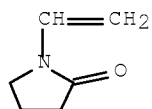
CMF C3 H5 N O



RN 9003-39-8 HCAPLUS  
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

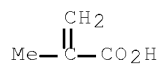
CRN 88-12-0  
 CMF C6 H9 N O



RN 25087-26-7 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, homopolymer (CA INDEX NAME)

CM 1

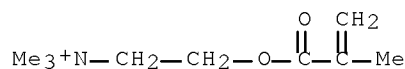
CRN 79-41-4  
 CMF C4 H6 O2



RN 26161-33-1 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), homopolymer (CA INDEX NAME)

CM 1

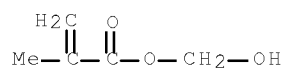
CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl



RN 50885-97-7 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, hydroxymethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 21982-30-9  
 CMF C5 H8 O3



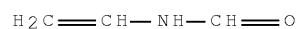
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

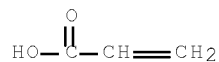
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 434337-19-6 HCAPLUS

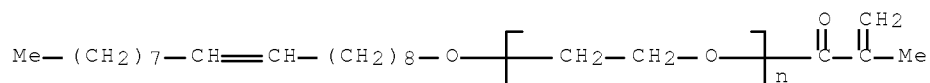
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with N-ethenylformamide and [α-(2Z)-2-methyl-1-oxo-2-propenyl]-ω-(9-octadecenyl)oxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 176110-19-3

CMF (C2 H4 O)n C22 H40 O2

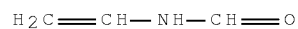
CCI PMS



CM 2

CRN 13162-05-5

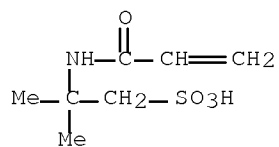
CMF C3 H5 N O



CM 3

CRN 5165-97-9

CMF C7 H13 N O4 S . Na



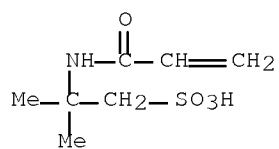
RN 434337-20-9 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monoammonium salt, polymer with 1-ethenyl-2-pyrrolidinone,  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -butoxypoly(oxy-1,2-ethanediyl) and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 58374-69-9

CMF C7 H13 N O4 S . H3 N

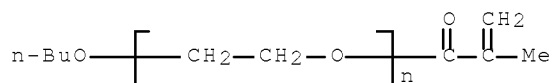


CM 2

CRN 51053-34-0

CMF (C2 H4 O)<sub>n</sub> C8 H14 O2

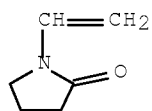
CCI PMS



CM 3

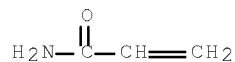


CRN 88-12-0  
CMF C6 H9 N O



CM 4

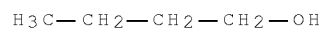
CRN 79-06-1  
CMF C3 H5 N O



RN 434938-17-7 HCAPLUS  
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,  
monoammonium salt, polymer with 1-ethenyl-2-pyrrolidinone, oxirane  
and 2-propenamamide, butyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 71-36-3  
CMF C4 H10 O

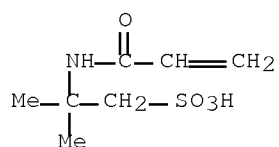


CM 2

CRN 434938-16-6  
CMF (C7 H13 N O4 S . C6 H9 N O . C3 H5 N O . C2 H4 O . H3 N)x  
CCI PMS

CM 3

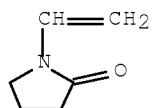
CRN 58374-69-9  
CMF C7 H13 N O4 S . H3 N



CM 4

CRN 88-12-0

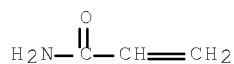
CMF C6 H9 N O



CM 5

CRN 79-06-1

CMF C3 H5 N O



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 435278-89-0 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monoammonium salt, polymer with  
 $\alpha$ -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-  
 $\omega$ -[[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]oxy]poly[oxy(dimethylsilylene)],  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -  
 [(heptafluorooctyl)oxy]poly(oxy-1,2-ethanediyl) and  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-

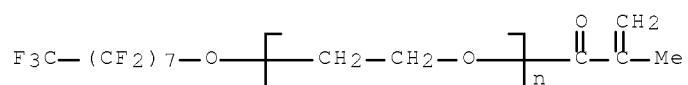
ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 434286-58-5

CMF (C2 H4 O)<sub>n</sub> C12 H5 F17 O2

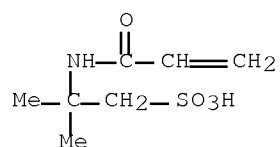
CCI PMS



CM 2

CRN 58374-69-9

CMF C7 H13 N O4 S . H3 N

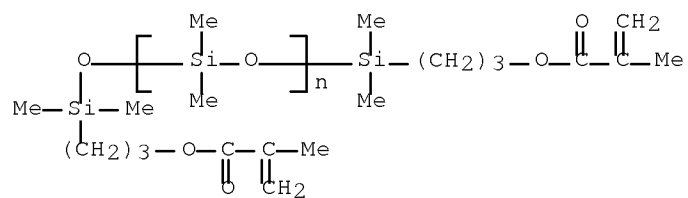


CM 3

CRN 58130-03-3

CMF (C2 H6 O Si)<sub>n</sub> C18 H34 O5 Si2

CCI PMS

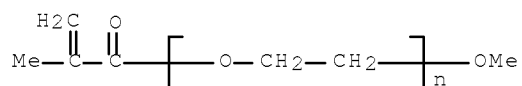


CM 4

CRN 26915-72-0

CMF (C2 H4 O)<sub>n</sub> C5 H8 O2

CCI PMS



- IC ICM C08F291-00
- CC 46-4 (Surface Active Agents and Detergents)
- IT Alcohols, preparation  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (C12-14, ethoxylated, Genapol LA 070; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Alcohols, preparation  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers with acryloylaminodimethylethanesulfonates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (alkyl ethers, methacrylates, polymers with TMPTA and AMPS ammonium ~~salts~~; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Surfactants  
 (anionic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Surfactants  
 (cationic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Cosmetics  
 Detergents  
 Drugs  
 Petroleum recovery  
 Polyelectrolytes  
 Thickening agents  
 (compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Betaines  
 Fluoropolymers, preparation  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (ethers, reaction products, with acryloylaminodimethylethanesulfonate-based polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic

- acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Surfactants  
(nonionic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Agriculture and Agricultural chemistry  
(plant protective agents; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Quaternary ammonium compounds, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polysiloxanes, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(polyoxyalkylene-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium ~~salt~~ and polyoxyalkylene (meth)acrylates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(polysiloxane-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium ~~salt~~ and polyoxyalkylene (meth)acrylates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(reaction products with acryloylaminodimethylethanesulfonate-based copolymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(reaction products, with acryloylaminodimethylethanesulfonate-based polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT Alcohols, preparation  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(tallow, ethoxylated, Genapol, (meth)acrylates, polymers with acryloylaminodimethylethanesulfonates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its ~~salts~~ and synergistic surfactant additives for thickeners)
- IT 79-41-4DP, Methacrylic acid, esters with polyoxyalkylene, polymers with TMPTA and AMPS ammonium ~~salt~~ 88-12-0DP, polymers with polyoxyalkylene methacrylates, AMPS ammonium ~~salt~~, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone 5039-78-1DP, Methacryloyloxyethyltrimethylammonium chloride, polymers with AMPS

ammonium salt, polyethylene glycol monocrotonate  
 C12-14-alkyl ethers and diallyldimethylammonium chloride, reaction  
 products with acrylic acid-vinylformamide copolymer 5039-78-1DP,  
 2-Methacryloyloxyethyltrimethylammonium chloride, polymers with  
 polyoxyalkylene methacrylates, AMPS ammonium salt, and  
 vinylpyrrolidone, reaction products with polyvinylpyrrolidone  
 7398-69-8DP, Diallyldimethylammonium chloride, polymers with AMPS  
 ammonium salt, polyethylene glycol monocrotonate  
 C12-14-alkyl ethers and methacryloyloxyethyltrimethylammonium  
 chloride, reaction products with acrylic acid-vinylformamide  
 copolymer 7664-93-9DP, Sulfuric acid, esters with fatty alcs.,  
 salts 9002-92-0P, Polyethylene glycol lauryl ether  
 9003-01-4DP, Polyacrylic acid, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 9003-05-8DP, Polyacrylamide, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 9003-39-8DP, K-30, reaction products with copolymers of  
 acryloylaminodimethylethanesulfonate salts 9004-77-7P,  
 Polyethylene glycol butyl ether 15214-89-8DP, AMPS, polymers with  
 polyoxyalkylene (meth)acrylates and  
 methacrylamidoethyltrimethylammonium chloride 15625-89-5DP, TMPTA,  
 polymers with polyoxyalkylene methacrylates and AMPS ammonium  
 salt 25087-26-7DP, Polymethacrylic acid,  
 reaction products with acryloylaminodimethylethanesulfonate-based  
 copolymers 25189-83-7DP, Poly-N-vinylcaprolactam, reaction  
 products with acryloylaminodimethylethanesulfonate-based copolymers  
 25322-68-3DP, Polyethylene glycol, alkyl ethers, methacrylates,  
 polymers with TMPTA and AMPS ammonium salts  
 25322-69-4DP, Polypropylene glycol, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 25736-86-1DP, Polyethylene glycol monomethacrylate, C12-14-alkyl  
 ethers, polymers with polyoxyalkylene acrylates,  
 methacrylamidoethyltrimethylammonium chloride, and AMPS  
 25852-47-5DP, Polyethylene glycol dimethacrylate, polymers with AMPS  
 ammonium salt, ethoxylated polysiloxane methacrylate, and  
 polyoxyalkylene acrylate 26062-79-3DP, Polydiallyldimethylammonium  
 chloride, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium  
 chloride, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 26616-03-5DP, Poly-N-vinyl-N-methylacetamide, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 28408-65-3DP, Poly-N-vinylacetamide, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 31851-82-8DP, Poly-N-vinylmorpholine, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction  
 products with acryloylaminodimethylethanesulfonate-based copolymers  
 58374-69-9DP, polymers with polyoxyalkylene methacrylates and TMPTA  
 72018-12-3DP, Poly-N-vinylformamide, reaction products with  
 acryloylaminodimethylethanesulfonate-based copolymers  
 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer,  
 reaction products with acryloylaminodimethylethanesulfonate-based  
 copolymers 434337-19-6P 434337-20-9P  
 434938-17-7P 435278-89-0P  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (compns. containing copolymers based on  
 acryloylaminodimethylethanesulfonic acid or its salts

and synergistic surfactant additives for thickeners)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:428948 HCAPLUS Full-text

DOCUMENT NUMBER: 137:20778

TITLE: Water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid

INVENTOR(S): Morschhaeuser, Roman; Glauder, Jan; Loeffler, Matthias; Kayser, Christoph; Tardi, Aranka

PATENT ASSIGNEE(S): Clariant Gmbh, Germany

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

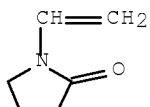
FAMILY ACC. NUM. COUNT: 16

PATENT INFORMATION:

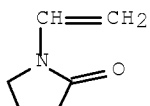
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
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US 20040167304	A1	20040826	US 2003-433179	20031110
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US 6891011	B2	20050510		
PRIORITY APPLN. INFO.:			DE 2000-10059828	A 20001201
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&lt;--

- AB The invention relates to water-soluble or water-swellaable copolymers, which are obtained by radically copolymerizing: (A) acryloyldimethyltaurine acid and/or acryloyldimethyltaurates, (B) optionally, one or more additional olefinically unsaturated, non-cationic comonomers, (C) optionally, one or more olefinically unsaturated, cationic comonomers, (D) optionally, one or more silicon-containing constituent(s), (E) optionally one or more fluorine-containing constituent(s), (F) optionally one or more macromonomers, (G) optionally, at least one polymeric additive, with the provision that constituent (A) is copolymerized with at least two constituents selected from at least two of groups (C) to (F). A typical copolymer was manufactured by radical polymerization of AMPS NH<sub>4</sub> salt 80, Genapol LA-070 methacrylate 10, Silvet 7608 (monofunctional ethoxylated siloxane methacrylate) 10, and TMPTA 1.8 g.
- IT 88-12-0DP, N-Vinyl-2-pyrrolidone, copolymers with acryloyldimethyltaurates 9003-39-8DP, K-30, reaction products with acryloyldimethyltaurate salt polymers 102583-40-4DP, Acrylic acid-N-vinylcaprolactam copolymer, reaction products with acryloyldimethyltaurate-based polymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with copolymers of acryloyldimethyltaurates 434286-57-4DP, Ammonium 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonate-ethylene oxide-2-(methacryloyloxy)ethyltrimethylammonium chloride-N-vinyl-2-pyrrolidone graft copolymer, ethers with tallow alcohols, reaction products with polyvinylpyrrolidone 434286-59-6DP, reaction products with poly-N-vinylformamide 435278-26-5DP, ethers with tallow alcohols.
- RL: IMF (Industrial manufacture); PREP (Preparation)
- (water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)
- RN 88-12-0 HCAPLUS
- CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



- RN 9003-39-8 HCAPLUS
- CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)
- CM 1
- CRN 88-12-0
- CMF C6 H9 N O

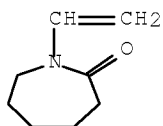




RN 102583-40-4 HCAPLUS  
 CN 2-Propenoic acid, polymer with 1-ethenylhexahydro-2H-azepin-2-one  
 (9CI) (CA INDEX NAME)

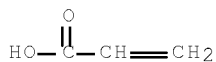
CM 1

CRN 2235-00-9  
 CMF C8 H13 N O



CM 2

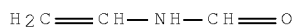
CRN 79-10-7  
 CMF C3 H4 O2



RN 134367-40-1 HCAPLUS  
 CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

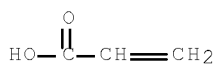
CM 1

CRN 13162-05-5  
 CMF C3 H5 N O



CM 2

CRN 79-10-7  
 CMF C3 H4 O2



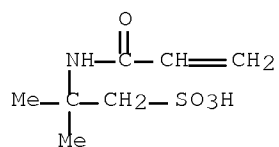
RN 434286-57-4 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, polymer with 1-ethenyl-2-pyrrolidinone,

2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid  
monoammonium salt and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 58374-69-9

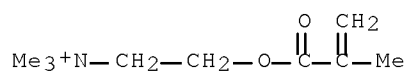
CMF C7 H13 N O4 S . H3 N



CM 2

CRN 5039-78-1

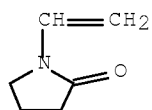
CMF C9 H18 N O2 . Cl



CM 3

CRN 88-12-0

CMF C6 H9 N O



CM 4

CRN 75-21-8

CMF C2 H4 O



RN 434286-59-6 HCAPLUS

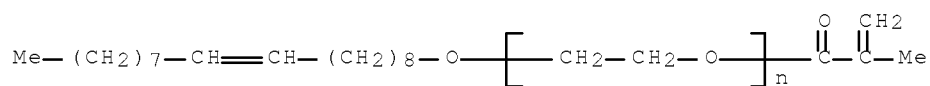
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer  
with N-ethenylformamide, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-  
propanesulfonic acid monosodium salt and  
 $\alpha$ -[(2Z)-2-methyl-1-oxo-2-propenyl]- $\omega$ -(9-  
octadecenyl)oxy)poly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX  
NAME)

CM 1

CRN 176110-19-3

CMF (C2 H4 O)<sub>n</sub> C22 H40 O2

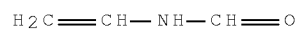
CCI PMS



CM 2

CRN 13162-05-5

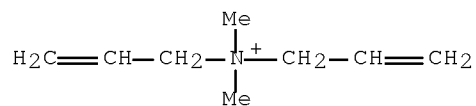
CMF C3 H5 N O



CM 3

CRN 7398-69-8

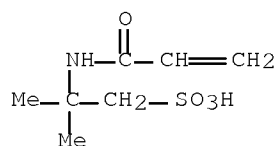
CMF C8 H16 N . Cl



CM 4

CRN 5165-97-9

CMF C7 H13 N O4 S . Na



RN 435278-26-5 HCAPLUS

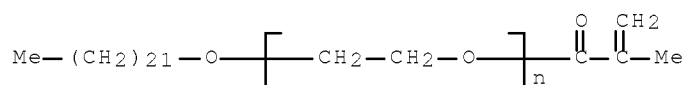
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -(docosyloxy)poly(oxy-1,2-ethanediyl) and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)<sub>n</sub> C26 H50 O2

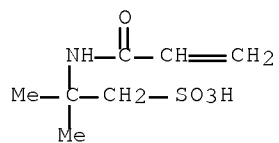
CCI PMS



CM 2

CRN 15214-89-8

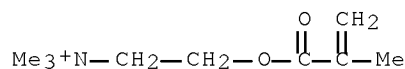
CMF C7 H13 N O4 S



CM 3

CRN 5039-78-1

CMF C9 H18 N O2 . C1



CM 4

CRN 75-21-8

CMF C2 H4 O



- IC ICM C08F020-58  
 CC 35-4 (Chemistry of Synthetic High Polymers)  
 IT Alcohols, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers with acryloyldimethyltaurates; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Polymers, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (comb; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Quaternary ammonium compounds, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (polymers; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Polysiloxanes, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (polyoxyalkylene-, acrylates, Silvet 7608, Silvet Y-12867, polymers with acryloyldimethyltaurates; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Polyoxyalkylenes, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (polysiloxane-, acrylates, Silvet 7608, Silvet Y-12867, polymers with acryloyldimethyltaurates; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Polymerization  
 (radical; acryloyldimethyltaurine acid or its salts with macromonomers)  
 IT Alcohols, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (tallow, ethers, with graft polymers of ethylene oxide and acryloyldimethyltaurates; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)  
 IT Alcohols, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)

(tallow, ethoxylated, acrylates, polymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)

## IT Polyelectrolytes

(water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)

## IT 58130-03-3DP, GP 478, polymers with acryloyldimethyltaurate, reaction products with acrylic acid-vinylcaprolactam copolymers

RL: IMF (Industrial manufacture); PREP (Preparation)

(GP-446; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)

## IT 79-41-4DP, Methacrylic acid, esters with ethoxylated C12-14 alcs. or ethoxylated siloxanes

RL: IMF (Industrial manufacture); PREP (Preparation)

(polymers, with acryloyldimethyltaurates; water-soluble and water-swellaable copolymers based on acryloyldimethyltaurine acid or its salts)

IT 79-06-1DP, Acrylamide, copolymers with acryloyldimethyltaurates  
79-10-7DP, Acrylic acid, esters with ethoxylated tallow alcs.,  
polymers with acryloyldimethyltaurates, reaction products with  
polyvinylcaprolactam 88-12-0DP, N-Vinyl-2-pyrrolidone,  
copolymers with acryloyldimethyltaurates 3724-65-0DP, Crotonic  
acid, esters with polyethylene glycol tallow ethers, polymers with  
acryloyldimethyltaurates, reaction products with acrylic  
acid-vinylformamide copolymers 9003-39-8DP, K-30,  
reaction products with acryloyldimethyltaurate salt  
polymers 9056-77-3DP, Polyethylene glycol methacrylate, copolymers  
with acryloyldimethyltaurates, reaction products with acrylic  
acid-vinylcaprolactam copolymers 15625-89-5DP, TMPTA, comb  
copolymers with acryloyldimethyltaurates 25189-83-7DP,  
Poly-N-vinylcaprolactam, reaction products with copolymers of  
acryloyldimethyltaurates 25852-47-5DP, Polyethylene glycol  
dimethacrylate, copolymers with acryloyldimethyltaurates, reaction  
products with polyvinylcaprolactam 45708-78-9DP, copolymers with  
acryloyldimethyltaurates, reaction products with  
polyvinylcaprolactam 72018-12-3DP, Poly-N-vinylformamide, reaction  
products with acryloyldimethyltaurate-based polymers  
102583-40-4DP, Acrylic acid-N-vinylcaprolactam copolymer,  
reaction products with acryloyldimethyltaurate-based polymers  
134367-40-1DP, Acrylic acid-N-vinylformamide copolymer,  
reaction products with copolymers of acryloyldimethyltaurates  
434286-57-4DP, Ammonium  
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonate-ethylene  
oxide-2-(methacryloyloxy)ethyltrimethylammonium  
chloride-N-vinyl-2-pyrrolidone graft copolymer, ethers with tallow  
alcs., reaction products with polyvinylpyrrolidone 434286-58-5DP,  
copolymers with acryloyldimethyltaurates, reaction products with  
acrylic acid-vinylcaprolactam copolymers 434286-59-6DP,  
reaction products with poly-N-vinylformamide 434286-60-9DP,  
copolymers with acryloyldimethyltaurates, reaction products with  
polyvinylcaprolactam 435278-26-5DP, ethers with tallow  
alcs.

RL: IMF (Industrial manufacture); PREP  
(Preparation)

(water-soluble and water-swellaable copolymers based on  
acryloyldimethyltaurine acid or its salts)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS  
RECORD (4 CITINGS)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L40 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:224436 HCAPLUS Full-text

DOCUMENT NUMBER: 137:6517

TITLE: Polymer ~~dispersions~~ as intermediate  
state during the synthesis of specialty polymers

AUTHOR(S): Tauer, Klaus; Khrenov, Victor

CORPORATE SOURCE: Max Planck Institute of Colloids and  
Interfaces Am Muhlenberg, Golm, D 14476, Germany

SOURCE: Macromolecular Symposia (2002),  
179(15th Bratislava International Conference on  
Polymers, Non-Conventional Polymer Dispersions,  
2001), 27-52

CODEN: MSYMEC; ISSN: 1022-1360

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Heterophase polymerization in combination with ceric ion redox ~~initiation~~  
offers some unique features with respect to the preparation of block  
copolymers and block copolymer particles. Various kinds of amphiphilic  
multiblock copolymers as well as electrosterically or sterically stabilized  
particles are easily accessible. A special feature of these particles is that  
they may consist of two different hydrophilic blocks and thus, leading to  
particles with a structured hydrophilic shell. The amphiphilic multiblock  
copolymers are used to form a new class of polymer ~~dispersions~~ by self-  
organization so-called polymeric colloidal complexes. In general, the  
particles of these complexes are structured and exhibit very often multiple  
morphologies. This principle of formation of polymer ~~colloids~~ is an easy way  
to prepare particles with an unusual morphol. such as Janus-type particles.  
Major emphasis was placed on the possibilities of the ceric ion redox  
~~initiation~~ with polymeric reductants in combination with aqueous heterophase  
polymers. with respect to the preparation of unique block copolymers. Also,  
the preparation of polymeric colloidal complexes using these copolymers are  
also described.

IT 25189-55-3P, Poly(N-isopropylacrylamide)  
120964-16-1P, Acrylic acid methyl methacrylate block  
copolymer 127000-75-3P, Diethylaminoethyl  
methacrylate-methyl methacrylate block copolymer  
192703-66-5P, N-Isopropylacrylamide-poly(oxyethylene) block  
copolymer 214957-23-0P, Ethylene oxide-diethylaminoethyl  
methacrylate block copolymer 423126-11-8P,  
N-Isopropylacrylamide-N-vinylpyrrolidone block copolymer  
432513-86-5P, N-Isopropylacrylamide-diethylaminoethyl  
methacrylate block copolymer 432513-87-6P, Ethylene  
oxide-N-isopropylacrylamide-styrene block copolymer  
RL: PRP (Properties); SPN (Synthetic preparation);  
PREP (Preparation)

(polymer ~~dispersions~~ as intermediate state during  
synthesis of specialty polymers their structural characteristics)

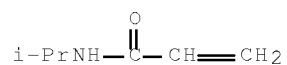
RN 25189-55-3 HCAPLUS

CN 2-Propenamide, N-(1-methylethyl)-, homopolymer (CA INDEX NAME)

CM 1

CRN 2210-25-5

CMF C6 H11 N O



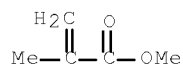
RN 120964-16-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-propenoic acid, block (CA INDEX NAME)

CM 1

CRN 80-62-6

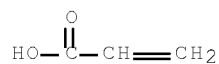
CMF C5 H8 O2



CM 2

CRN 79-10-7

CMF C3 H4 O2



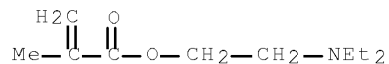
RN 127000-75-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 105-16-8

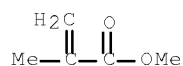
CMF C10 H19 N O2



CM 2

CRN 80-62-6

CMF C5 H8 O2

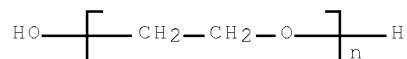




RN 192703-66-5 HCAPLUS  
 CN 2-Propenamide, N-(1-methylethyl)-, polymer with  
 $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), block (9CI)  
 (CA INDEX NAME)

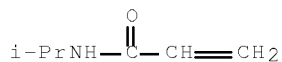
CM 1

CRN 25322-68-3  
 CMF (C2 H4 O)<sub>n</sub> H2 O  
 CCI PMS



CM 2

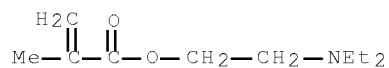
CRN 2210-25-5  
 CMF C6 H11 N O



RN 214957-23-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer  
 with oxirane, block (CA INDEX NAME)

CM 1

CRN 105-16-8  
 CMF C10 H19 N O2



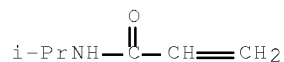
CM 2

CRN 75-21-8  
 CMF C2 H4 O

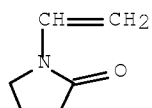


RN 423126-11-8 HCAPLUS  
 CN 2-Propenamide, N-(1-methylethyl)-, polymer with  
 1-ethenyl-2-pyrrolidinone, block (9CI) (CA INDEX NAME)

CM 1

CRN 2210-25-5  
CMF C6 H11 N O

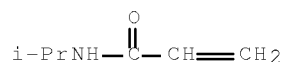
CM 2

CRN 88-12-0  
CMF C6 H9 N O

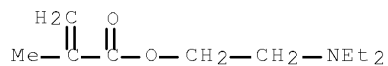
RN 432513-86-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer  
with N-(1-methylethyl)-2-propenamide, block (CA INDEX NAME)

CM 1

CRN 2210-25-5  
CMF C6 H11 N O

CM 2

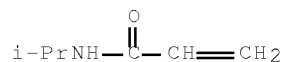
CRN 105-16-8  
CMF C10 H19 N O2

RN 432513-87-6 HCAPLUS

CN 2-Propenamide, N-(1-methylethyl)-, polymer with ethenylbenzene and  
oxirane, block (9CI) (CA INDEX NAME)

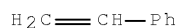
CM 1

CRN 2210-25-5  
CMF C6 H11 N O



CM 2

CRN 100-42-5  
CMF C8 H8



CM 3

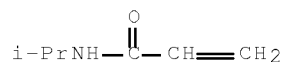
CRN 75-21-8  
CMF C2 H4 O



IT 432513-85-4, Ethylene oxide-N-Isopropylacrylamide-methyl  
methacrylate block copolymer 842126-31-2  
RL: CAT (Catalyst use); USES (Uses)  
(triblock; polymer dispersions as intermediate state  
during synthesis of specialty polymers their structural  
characteristics)  
RN 432513-85-4 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
N-(1-methylethyl)-2-propenamide and oxirane, block (9CI) (CA INDEX  
NAME)

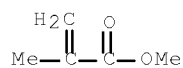
CM 1

CRN 2210-25-5  
CMF C6 H11 N O



CM 2

CRN 80-62-6  
CMF C5 H8 O2



CM 3

CRN 75-21-8

CMF C2 H4 O



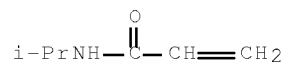
RN 842126-31-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
N-(1-methylethyl)-2-propenamide and oxirane, triblock (9CI) (CA  
INDEX NAME)

CM 1

CRN 2210-25-5

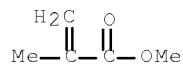
CMF C6 H11 N O



CM 2

CRN 80-62-6

CMF C5 H8 O2



CM 3

CRN 75-21-8

CMF C2 H4 O



- CC 35-7 (Chemistry of Synthetic High Polymers)  
Section cross-reference(s): 37
- ST specialty polymer synthesis heterophase polymn polymer  
dispersion intermediate; block copolymer synthesis ceric ion  
polymer polymn initiation; polymeric colloidal complex  
intermediate specialty polymer synthesis
- IT Polymerization  
Polymerization catalysts  
(block; polymer dispersions as intermediate state  
during synthesis of specialty polymers their structural  
characteristics)
- IT Polyoxyalkylenes, uses  
RL: CAT (Catalyst use); USES (Uses)  
(cerium colloidal complexes, initiator; polymer  
dispersions as intermediate state during synthesis of  
specialty polymers their structural characteristics)
- IT Thickness  
(corona; polymer dispersions as intermediate state  
during synthesis of specialty polymers their structural  
characteristics)
- IT Particles  
(hairy; polymer dispersions as intermediate state  
during synthesis of specialty polymers their structural  
characteristics)
- IT Polymer chains  
(hydrodynamic radius of; polymer dispersions as  
intermediate state during synthesis of specialty polymers their  
structural characteristics)
- IT Polymer morphology  
(phase; polymer dispersions as intermediate state  
during synthesis of specialty polymers their structural  
characteristics)
- IT Aggregation  
Micelles  
Polyelectrolytes  
Polymer morphology  
Radius of gyration  
(polymer dispersions as intermediate state during  
synthesis of specialty polymers their structural characteristics)
- IT Polymerization  
(radical, heterophase; polymer dispersions as  
intermediate state during synthesis of specialty polymers their  
structural characteristics)
- IT 2210-25-5DP, N-Isopropylacrylamide, polymers with styrenesulfonates  
and styrene, block 26914-43-2DP, Styrenesulfonic acid,  
salts, polymers with N-isopropylacrylamide and styrene,  
block  
RL: PRP (Properties); SPN (Synthetic preparation); PREP  
(Preparation)  
(di- and triblock; polymer dispersions as intermediate  
state during synthesis of specialty polymers their structural  
characteristics)
- IT 7440-45-1D, Cerium, PEG colloidal complexes 15078-94-1, Cerium  
ammonium nitrate 25322-68-3D, Poly(ethylene glycol), cerium  
colloidal complexes  
RL: CAT (Catalyst use); USES (Uses)  
(initiator; polymer dispersions as  
intermediate state during synthesis of specialty polymers their  
structural characteristics)
- IT 7647-14-5, Sodium chloride, uses

RL: NUU (Other use, unclassified); USES (Uses)  
 (medium; polymer ~~dispersions~~ as intermediate state  
 during synthesis of specialty polymers their structural  
 characteristics)

IT 75-21-8DP, Ethylene oxide, polymers with  
 acrylamidopropanesulfonates, block 79-41-4DP, Methacrylic acid,  
 polymers with tert-Bu methacrylate and styrenesulfonates, block  
 80-62-6DP, Methyl methacrylate, polymers with styrene and  
 styrenesulfonates, block 100-42-5DP, Styrene, polymers with Me  
 methacrylate and styrenesulfonates, block 106-91-2DP, Glycidyl  
 methacrylate, polymers with styrenesulfonates and  
 isopropylacrylamide, block 112-02-7DP, Cetyl trimethylammonium  
 chloride, colloidal complexes with ethylene oxide-styrenesulfonates  
 diblock copolymer 140-88-5DP, Ethyl acrylate, polymer with  
 styrenesulfonates, methacrylic acid, and isopropylacrylamide, block  
 585-07-9DP, Tert-Butyl methacrylate, polymers with styrenesulfonates  
 and methacrylic acid, block 2210-25-5DP, N-Isopropylacrylamide,  
 polymers with styrene sulfonates, ethylene oxide, and acrylates,  
 block 5896-54-8DP, E 30, colloidal complexes with diallyl di-Me  
 ammonium chloride-ethylene oxide block copolymer  
 25189-55-3P, Poly(N-isopropylacrylamide) 26914-43-2DP,  
 Styrenesulfonic acid, salts, polymers with  
 isopropylacrylamide, styrene, and acrylates, block 33028-26-1DP,  
 2-Acrylamidopropanesulfonic acid, salts, polymers with  
 isopropylacrylamide or ethylene oxide, block 120964-16-1P  
 , Acrylic acidmethyl methacrylate block copolymer  
 127000-75-3P, Diethylaminoethyl methacrylate-methyl  
 methacrylate block copolymer 192703-66-5P,  
 N-Isopropylacrylamide-poly(oxyethylene) block copolymer  
 204906-33-2DP, Diallyl dimethyl ammonium chloride-ethylene oxide  
 block copolymer, colloidal complexes with  
 N-isopropylacrylamide-styrenesulfonates diblock copolymer or sodium  
 alkyl sulfonate 214957-23-0P, Ethylene  
 oxide-diethylaminoethyl methacrylate block copolymer  
 423126-11-8P, N-Isopropylacrylamide-N-vinylpyrrolidone block  
 copolymer 432513-86-5P,  
 N-Isopropylacrylamide-diethylaminoethyl methacrylate block copolymer  
 432513-87-6P, Ethylene oxide-N-isopropylacrylamide-styrene  
 block copolymer

RL: PRP (Properties); SPN (Synthetic preparation);  
 PREP (Preparation)

(polymer ~~dispersions~~ as intermediate state during  
 synthesis of specialty polymers their structural characteristics)

IT 432513-85-4, Ethylene oxide-N-Isopropylacrylamide-methyl  
 methacrylate block copolymer 842126-31-2

RL: CAT (Catalyst use); USES (Uses)

(triblock; polymer ~~dispersions~~ as intermediate state  
 during synthesis of specialty polymers their structural  
 characteristics)

IT 100-42-5DP, Styrene, polymers with N-isopropylacrylamide and  
 styrenesulfonates, block

RL: PRP (Properties); SPN (Synthetic preparation); PREP  
 (Preparation)

(triblock; polymer ~~dispersions~~ as intermediate state  
 during synthesis of specialty polymers their structural  
 characteristics)

OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS  
 RECORD (21 CITINGS)

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE  
 FOR THIS RECORD. ALL CITATIONS AVAILABLE

## IN THE RE FORMAT

L40 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2001:347156 HCAPLUS Full-text  
 DOCUMENT NUMBER: 134:368377  
 TITLE: Oil-based ink for electrostatic ink-jet printing  
 INVENTOR(S): Kato, Eiichi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001131455	A	20010515	JP 2000-255846	200008 25

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PRIORITY APPLN. INFO.: JP 1999-238824 A 199908  
25

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AB Title ink-jet ink, with good discharging stability as well as image brightness and strength for multiple printing, is prepared by dispersing in a nonaq. solution having elec. resistivity of  $\geq 10^9 \Omega \cdot \text{cm}$  and permittivity of  $\leq 3.5$ , with particles prepared from a solution containing (A) monofunctional monomers, which are soluble in a nonaq. solvent but the resulted copolymer of which not, (B) amino-containing monofunctional monomers (copolymerizable with A), (C) SO<sub>3</sub> and/or SO<sub>2</sub>H-containing monofunctional monomers (copolymerizable with A), (D) monofunctional macromonomers having main chains composed of specific repeat units with a terminal polymerizable double-bond group at one end, and (E) a star-type copolymer.

IT 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester 139104-87-3P  
 139104-90-8P 139105-03-6P 139105-08-1P  
 139105-12-7P 141414-99-5P 141415-72-7P  
 214835-07-1P 215877-54-6P 215877-61-5P  
 217076-83-0P 333362-05-3P 339334-13-3P  
 339334-16-6P 339334-20-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (macromer; preparation of oil-based ink for electrostatic ink-jet printing)

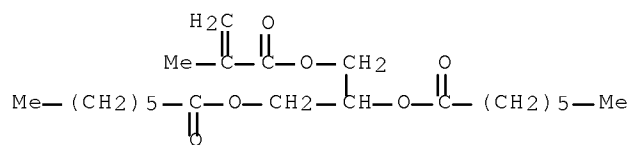
RN 138005-15-9 HCAPLUS

CN Heptanoic acid, 1-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 124322-34-5

CMF C21 H36 O6



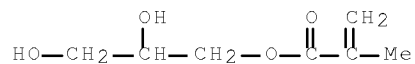
RN 139104-87-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, telomer with  
3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-  
propenyl)oxyl]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

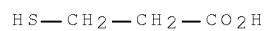
CRN 164848-41-3

CMF (C16 H30 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 25719-52-2

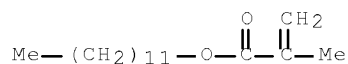
CMF (C16 H30 O2)x

CCI PMS

CM 5

CRN 142-90-5

CMF C16 H30 O2



RN 139104-90-8 HCAPLUS

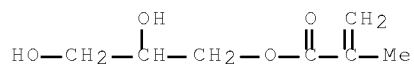


CN 2-Propenoic acid, 2-methyl-, hexadecyl ester, telomer with  
3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-  
propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

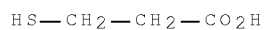
CRN 164848-43-5

CMF (C20 H38 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 25986-80-5

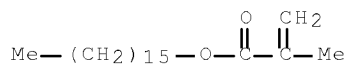
CMF (C20 H38 O2)x

CCI PMS

CM 5

CRN 2495-27-4

CMF C20 H38 O2



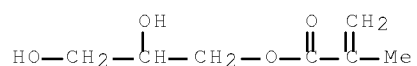
RN 139105-03-6 HCAPLUS

CN 2-Propenoic acid, octadecyl ester, telomer with 3-mercaptopropanoic  
acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI)  
(CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

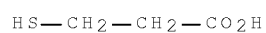
CRN 164848-45-7

CMF (C21 H40 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 25986-77-0

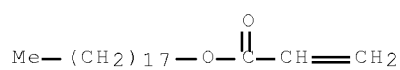
CMF (C21 H40 O2)x

CCI PMS

CM 5

CRN 4813-57-4

CMF C21 H40 O2



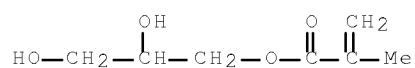
RN 139105-08-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, telomer with  
 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propen-1-yl)oxyl]propyl ester (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4

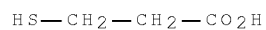


CM 2

CRN 164848-44-6  
 CMF (C22 H42 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0  
 CMF C3 H6 O2 S

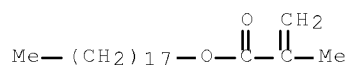


CM 4

CRN 25639-21-8  
 CMF (C22 H42 O2)x  
 CCI PMS

CM 5

CRN 32360-05-7  
 CMF C22 H42 O2

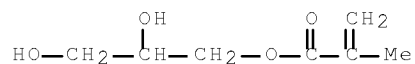


RN 139105-12-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, tridecyl ester, telomer with  
 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-  
 propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4  
 CMF C7 H12 O4

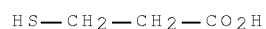


CM 2

CRN 164848-42-4  
 CMF (C17 H32 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0  
 CMF C3 H6 O2 S



CM 4

CRN 41630-11-9

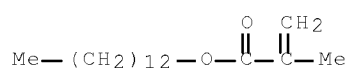
CMF (C17 H32 O2)x

CCI PMS

CM 5

CRN 2495-25-2

CMF C17 H32 O2



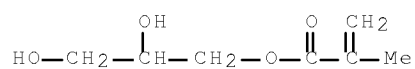
RN 141414-99-5 HCAPLUS

CN Heptanoic acid, 1-[[[(1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

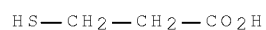
CRN 165892-37-5

CMF (C20 H34 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 165892-36-4

September 12, 2009

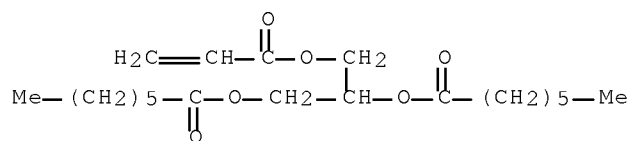
10/591,796

69

CMF (C20 H34 O6) x  
CCI PMS

CM 5

CRN 141657-06-9  
CMF C20 H34 O6

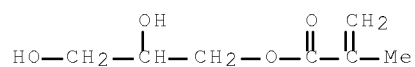


RN 141415-72-7 HCAPLUS

CN 2-Propenoic acid, 2-[3-(octylsulfonyl)-1-oxopropoxy]ethyl ester,  
telomer with 3-mercaptopropanoic acid,  
2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA  
INDEX NAME)

CM 1

CRN 5919-74-4  
CMF C7 H12 O4

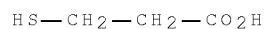


CM 2

CRN 165892-39-7  
CMF (C16 H28 O6 S)x . C3 H6 O2 S

CM 3

CRN 107-96-0  
CMF C3 H6 O2 S

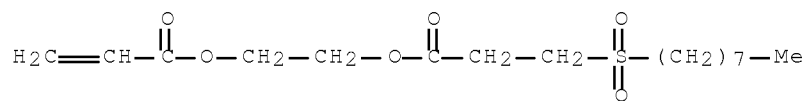


CM 4

CRN 165892-38-6  
CMF (C16 H28 O6 S) x  
CCI PMS

CM 5

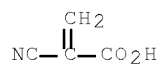
CRN 141657-16-1  
CMF C16 H28 O6 S



RN 214835-07-1 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, telomer with  
2-mercaptoethanol and octadecyl 2-propenoate, 2-cyano-2-propenoate  
(9CI) (CA INDEX NAME)

CM 1

CRN 15802-18-3  
CMF C4 H3 N O2

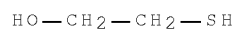


CM 2

CRN 214835-04-8  
CMF (C21 H40 O2 . C16 H30 O2)x . C2 H6 O S

CM 3

CRN 60-24-2  
CMF C2 H6 O S

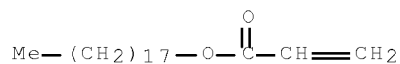


CM 4

CRN 140693-68-1  
CMF (C21 H40 O2 . C16 H30 O2)x  
CCI PMS

CM 5

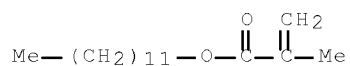
CRN 4813-57-4  
CMF C21 H40 O2



CM 6

CRN 142-90-5

CMF C16 H30 O2



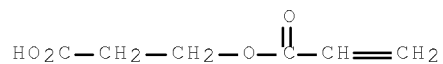
RN 215877-54-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, tetradecyl ester, telomer with  
 2-mercaptoethanol, 3-[(1-oxo-2-propenyl)oxy]propanoate (9CI) (CA  
 INDEX NAME)

CM 1

CRN 24615-84-7

CMF C6 H8 O4



CM 2

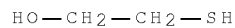
CRN 215877-53-5

CMF (C18 H34 O2)x . C2 H6 O S

CM 3

CRN 60-24-2

CMF C2 H6 O S



CM 4

CRN 30525-99-6

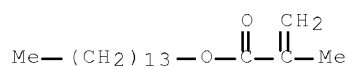
CMF (C18 H34 O2)x

CCI PMS

CM 5

CRN 2549-53-3

CMF C18 H34 O2



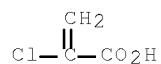
RN 215877-61-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, eicosyl ester, telomer with  
2-mercaptoethanol, 2-chloro-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 598-79-8

CMF C3 H3 Cl O2



CM 2

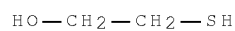
CRN 215877-60-4

CMF (C24 H46 O2)x . C2 H6 O S

CM 3

CRN 60-24-2

CMF C2 H6 O S



CM 4

CRN 87625-18-1

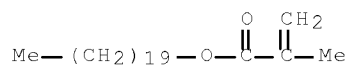
CMF (C24 H46 O2)x

CCI PMS

CM 5

CRN 45294-18-6

CMF C24 H46 O2



RN 217076-83-0 HCAPLUS

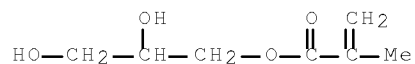
CN Butanedioic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl nonyl  
ester, telomer with 3-mercaptopropanoic acid,  
2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA  
INDEX NAME)



CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

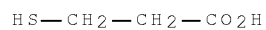
CRN 217076-82-9

CMF (C19 H32 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 217076-81-8

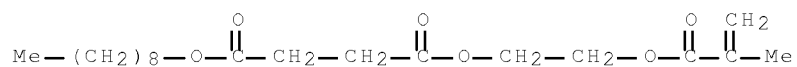
CMF (C19 H32 O6)x

CCI PMS

CM 5

CRN 215672-75-6

CMF C19 H32 O6



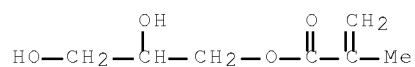
RN 333362-05-3 HCAPLUS

CN Pentanedioic acid, decyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

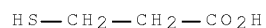
CRN 333362-04-2

CMF (C21 H36 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 333362-03-1

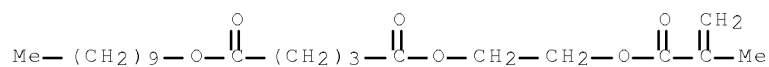
CMF (C21 H36 O6)x

CCI PMS

CM 5

CRN 333362-02-0

CMF C21 H36 O6



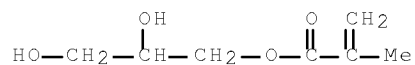
RN 339334-13-3 HCAPLUS

CN 2-Butenedioic acid, dodecyl 2-[(1-oxo-2-propenyl)oxy]ethyl ester,  
telomer with 3-mercaptopropanoic acid,  
2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA  
INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4

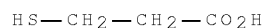


CM 2

CRN 339334-12-2  
 CMF (C21 H34 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0  
 CMF C3 H6 O2 S

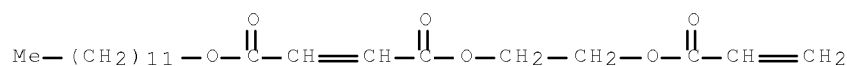


CM 4

CRN 339334-11-1  
 CMF (C21 H34 O6)x  
 CCI PMS

CM 5

CRN 339275-42-2  
 CMF C21 H34 O6

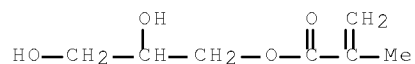


RN 339334-16-6 HCAPLUS

CN Hexanoic acid, 3-[(2-methyl-1-oxo-2-propenyl)oxy]-2-[(1-oxopentyl)oxy]propyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4  
 CMF C7 H12 O4

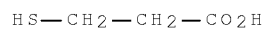


CM 2

CRN 339334-15-5  
 CMF (C18 H30 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0  
 CMF C3 H6 O2 S



CM 4

CRN 339334-14-4

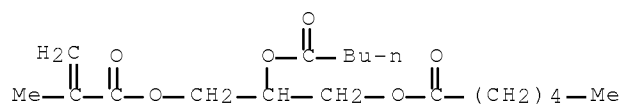
CMF (C18 H30 O6)x

CCI PMS

CM 5

CRN 339275-45-5

CMF C18 H30 O6



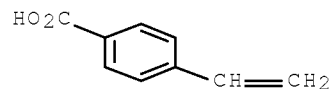
RN 339334-20-2 HCAPLUS

CN Undecanoic acid, 19-[(2-methyl-1-oxo-2-propenyl)oxy]nonadecyl ester, telomer with 2-mercaptoethanol, 4-ethenylbenzoate (9CI) (CA INDEX NAME)

CM 1

CRN 1075-49-6

CMF C9 H8 O2



CM 2

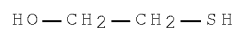
CRN 339334-19-9

CMF (C34 H64 O4)x . C2 H6 O S

CM 3

CRN 60-24-2

CMF C2 H6 O S

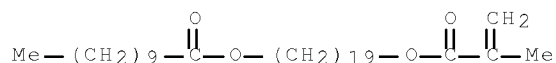


CM 4

CRN 339334-18-8  
 CMF (C34 H64 O4)x  
 CCI PMS

CM 5

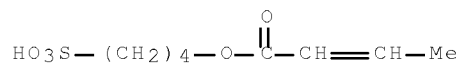
CRN 339334-17-7  
 CMF C34 H64 O4



IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl acetate graft copolymer 339275-36-4P, Dodecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-37-5P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate-tridecyl methacrylate graft copolymer 339275-38-6P, Hexadecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl methacrylate graft copolymer 339275-40-0P  
 339275-41-1P 339275-43-3P 339275-44-4P  
 339275-46-6P 339275-47-7P 339275-48-8P  
 339275-49-9P 339275-50-2P 339275-51-3P  
 339275-52-4P 339275-53-5P 339275-55-7P  
 339275-57-9P 339275-59-1P 339275-61-5P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of oil-based ink for electrostatic ink-jet printing)  
 RN 339275-35-3 HCAPLUS  
 CN 2-Butenoic acid, 2-(diethylamino)ethyl ester, polymer with ethenyl acetate, octadecyl 2-methyl-2-propenoate and 4-sulfobutyl 2-butenate, graft (9CI) (CA INDEX NAME)

CM 1

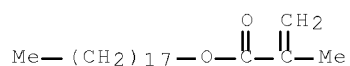
CRN 339275-34-2  
 CMF C8 H14 O5 S



CM 2

CRN 32360-05-7

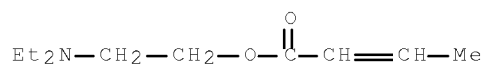
CMF C22 H42 O2



CM 3

CRN 10369-84-3

CMF C10 H19 N O2



CM 4

CRN 108-05-4

CMF C4 H6 O2



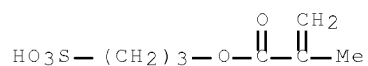
RN 339275-36-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

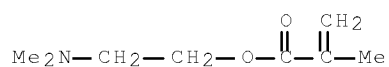
CMF C7 H12 O5 S



CM 2

CRN 2867-47-2

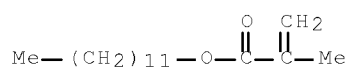
CMF C8 H15 N O2



CM 3

CRN 142-90-5

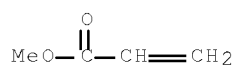
CMF C16 H30 O2



CM 4

CRN 96-33-3

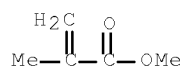
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



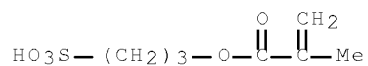
RN 339275-37-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer  
with methyl 2-methyl-2-propenoate, methyl 2-propenoate,  
3-sulfopropyl 2-methyl-2-propenoate and tridecyl  
2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

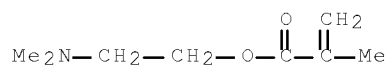
CMF C7 H12 O5 S



CM 2

CRN 2867-47-2

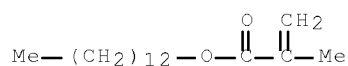
CMF C8 H15 N O2



CM 3

CRN 2495-25-2

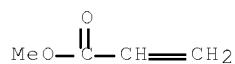
CMF C17 H32 O2



CM 4

CRN 96-33-3

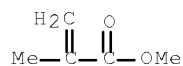
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



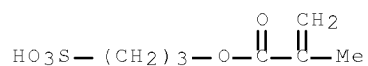
RN 339275-38-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with hexadecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

CMF C7 H12 O5 S

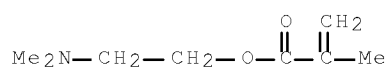




CM 2

CRN 2867-47-2

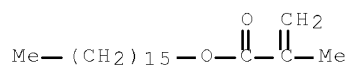
CMF C8 H15 N O2



CM 3

CRN 2495-27-4

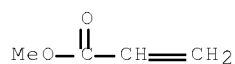
CMF C20 H38 O2



CM 4

CRN 96-33-3

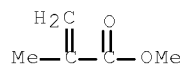
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



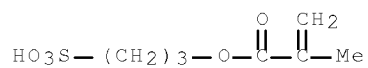
RN 339275-39-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, octadecyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

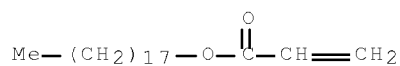
CMF C7 H12 O5 S



CM 2

CRN 4813-57-4

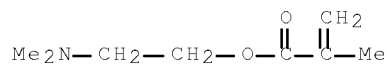
CMF C21 H40 O2



CM 3

CRN 2867-47-2

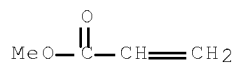
CMF C8 H15 N O2



CM 4

CRN 96-33-3

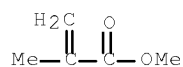
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 339275-40-0 HCAPLUS

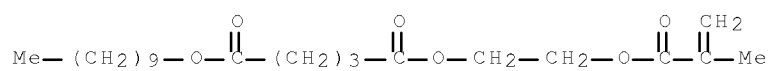
CN Pentanedioic acid, decyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl

2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 333362-02-0

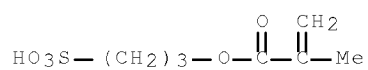
CMF C21 H36 O6



CM 2

CRN 7582-21-0

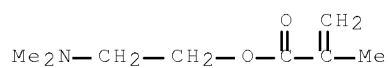
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

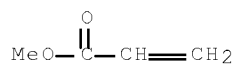
CMF C8 H15 N O2



CM 4

CRN 96-33-3

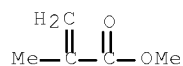
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



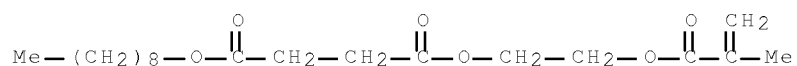
RN 339275-41-1 HCAPLUS

CN Butanedioic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl nonyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 215672-75-6

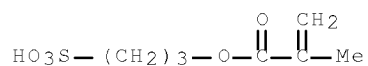
CMF C19 H32 O6



CM 2

CRN 7582-21-0

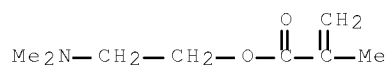
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

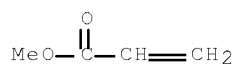
CMF C8 H15 N O2



CM 4

CRN 96-33-3

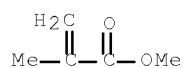
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



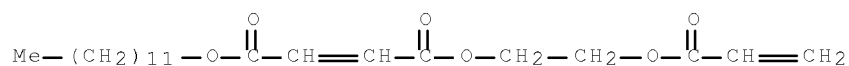
RN 339275-43-3 HCAPLUS

CN 2-Butenedioic acid, dodecyl 2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 339275-42-2

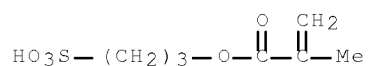
CMF C21 H34 O6



CM 2

CRN 7582-21-0

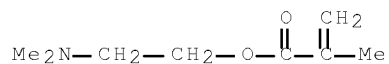
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

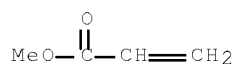
CMF C8 H15 N O2



CM 4

CRN 96-33-3

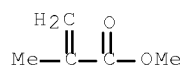
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



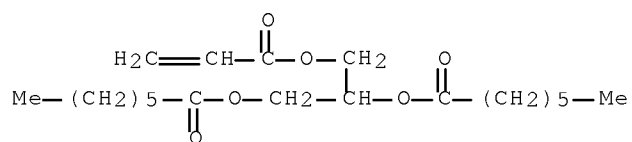
RN 339275-44-4 HCAPLUS

CN Heptanoic acid, 1-[[[(1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 141657-06-9

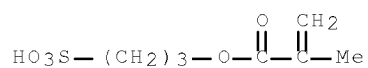
CMF C20 H34 O6



CM 2

CRN 7582-21-0

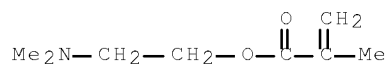
CMF C7 H12 O5 S



CM 3

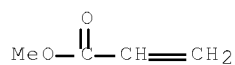
CRN 2867-47-2

CMF C8 H15 N O2



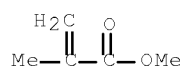
CM 4

CRN 96-33-3  
 CMF C4 H6 O2



CM 5

CRN 80-62-6  
 CMF C5 H8 O2

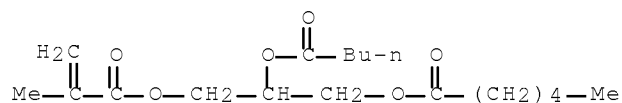


RN 339275-46-6 HCAPLUS

CN Hexanoic acid, 3-[(2-methyl-1-oxo-2-propenyl)oxy]-2-[(1-oxopentyl)oxy]propyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI)  
 (CA INDEX NAME)

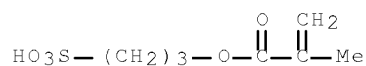
CM 1

CRN 339275-45-5  
 CMF C18 H30 O6



CM 2

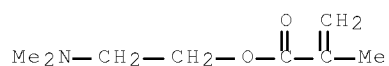
CRN 7582-21-0  
 CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

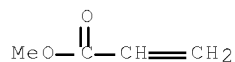
CMF C8 H15 N O2



CM 4

CRN 96-33-3

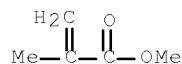
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



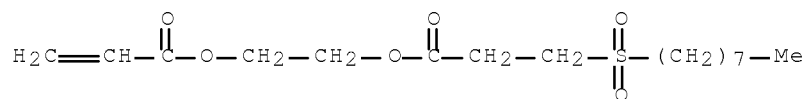
RN 339275-47-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 2-[3-(octylsulfonyl)-1-oxopropoxy]ethyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 141657-16-1

CMF C16 H28 O6 S

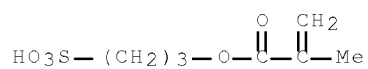


CM 2

CRN 7582-21-0

CMF C7 H12 O5 S

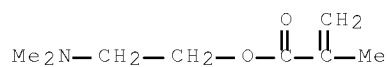




CM 3

CRN 2867-47-2

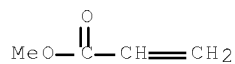
CMF C8 H15 N O2



CM 4

CRN 96-33-3

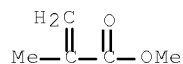
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



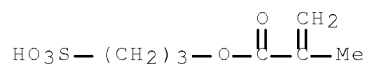
RN 339275-48-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 3-sulfopropyl 2-methyl-2-propenoate and tetradecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

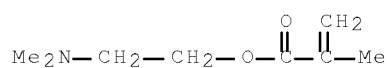
CMF C7 H12 O5 S



CM 2

CRN 2867-47-2

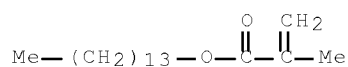
CMF C8 H15 N O2



CM 3

CRN 2549-53-3

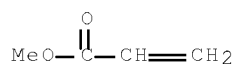
CMF C18 H34 O2



CM 4

CRN 96-33-3

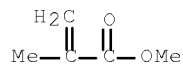
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



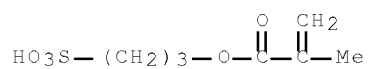
RN 339275-49-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate, octadecyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0

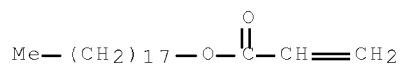
CMF C7 H12 O5 S



CM 2

CRN 4813-57-4

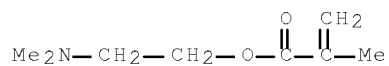
CMF C21 H40 O2



CM 3

CRN 2867-47-2

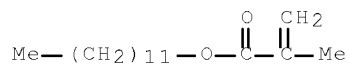
CMF C8 H15 N O2



CM 4

CRN 142-90-5

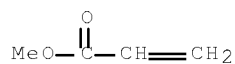
CMF C16 H30 O2



CM 5

CRN 96-33-3

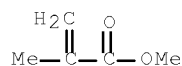
CMF C4 H6 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



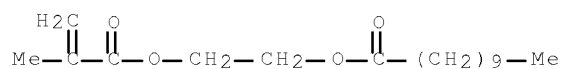
RN 339275-50-2 HCAPLUS

CN Undecanoic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 139720-83-5

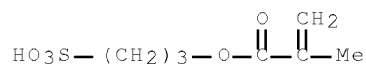
CMF C17 H30 O4



CM 2

CRN 7582-21-0

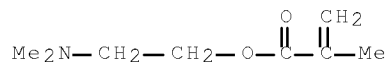
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

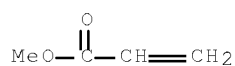
CMF C8 H15 N O2



CM 4

CRN 96-33-3

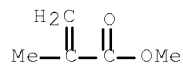
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



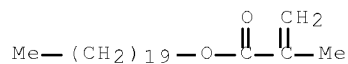
RN 339275-51-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with eicosyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 45294-18-6

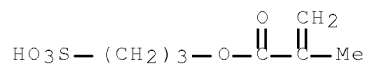
CMF C24 H46 O2



CM 2

CRN 7582-21-0

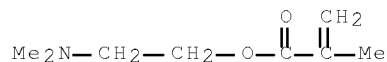
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

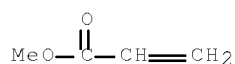
CMF C8 H15 N O2



CM 4

CRN 96-33-3

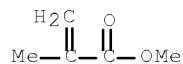
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



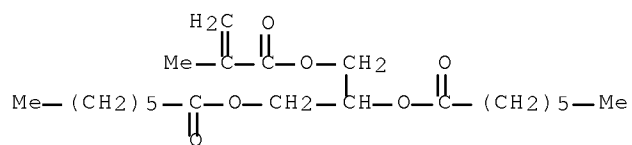
RN 339275-52-4 HCAPLUS

CN Heptanoic acid, 1-[[ (2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 124322-34-5

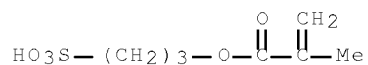
CMF C21 H36 O6



CM 2

CRN 7582-21-0

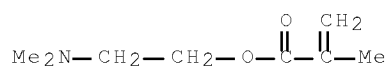
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

CMF C8 H15 N O2



CM 4

CRN 96-33-3

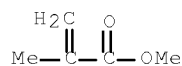
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



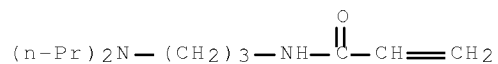
RN 339275-53-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with  
 N-[3-(dipropylamino)propyl]-2-propenamide, methyl  
 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl  
 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 65699-81-2

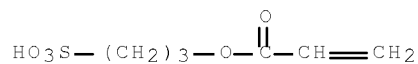
CMF C12 H24 N2 O



CM 2

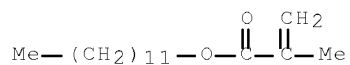
CRN 39121-78-3

CMF C6 H10 O5 S



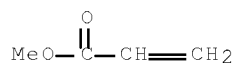
CM 3

CRN 142-90-5  
 CMF C16 H30 O2



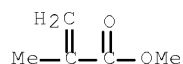
CM 4

CRN 96-33-3  
 CMF C4 H6 O2



CM 5

CRN 80-62-6  
 CMF C5 H8 O2

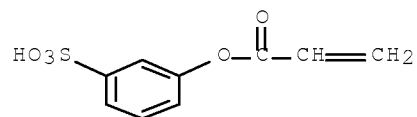


RN 339275-55-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl  
 2-methyl-2-propenoate, methyl 2-propenoate, 2-(4-morpholinyl)ethyl  
 2-methyl-2-propenoate and 3-sulfophenyl 2-propenoate, graft (9CI)  
 (CA INDEX NAME)

CM 1

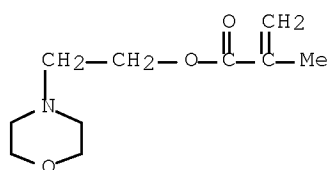
CRN 339275-54-6  
 CMF C9 H8 O5 S



CM 2

CRN 2997-88-8  
 CMF C10 H17 N O3

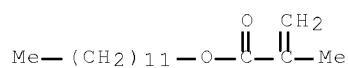




CM 3

CRN 142-90-5

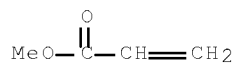
CMF C16 H30 O2



CM 4

CRN 96-33-3

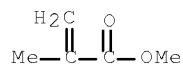
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



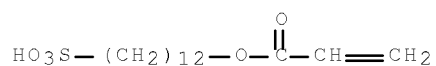
RN 339275-57-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl  
 2-methyl-2-propenoate, 2-[[[2-  
 [methyl(phenylmethyl)amino]ethoxy]carbonyl]amino]ethyl  
 2-methyl-2-propenoate, methyl 2-propenoate and 12-sulfododecyl  
 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 339275-56-8

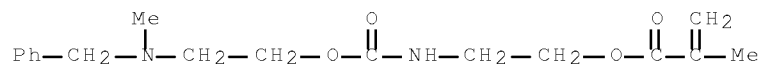
CMF C15 H28 O5 S



CM 2

CRN 305814-19-1

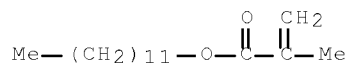
CMF C17 H24 N2 O4



CM 3

CRN 142-90-5

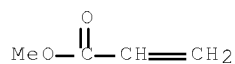
CMF C16 H30 O2



CM 4

CRN 96-33-3

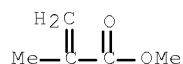
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 339275-59-1 HCAPLUS

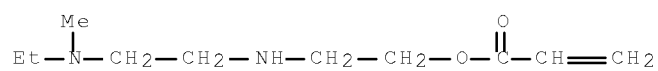
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with  
 2-[[2-(ethylmethylamino)ethyl]amino]ethyl 2-propenoate, methyl  
 2-methyl-2-propenoate, methyl 2-propenoate and  
 2-[[[(3-sulfopropoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate,

graft (9CI) (CA INDEX NAME)

CM 1

CRN 339275-58-0

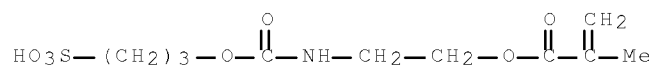
CMF C10 H20 N2 O2



CM 2

CRN 333407-08-2

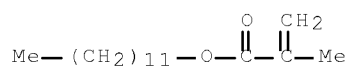
CMF C10 H17 N O7 S



CM 3

CRN 142-90-5

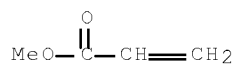
CMF C16 H30 O2



CM 4

CRN 96-33-3

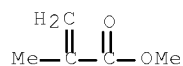
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



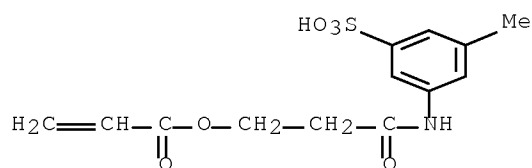
RN 339275-61-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with  
 N-[4-(dimethylamino)phenyl]-N-methyl-2-propenamide, methyl  
 2-methyl-2-propenoate, methyl 2-propenoate and  
 3-[(3-methyl-5-sulfophenyl)amino]-3-oxopropyl 2-propenoate, graft  
 (9CI) (CA INDEX NAME)

CM 1

CRN 339275-60-4

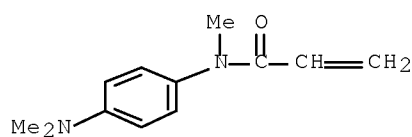
CMF C13 H15 N O6 S



CM 2

CRN 107314-56-7

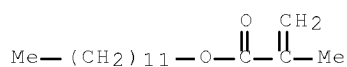
CMF C12 H16 N2 O



CM 3

CRN 142-90-5

CMF C16 H30 O2



CM 4

CRN 96-33-3

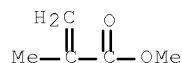
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



IT 25719-52-2, Polydodecylmethacrylate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (preparation of oil-based ink for electrostatic ink-jet printing)

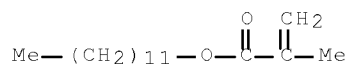
RN 25719-52-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 142-90-5

CMF C16 H30 O2



IT 150469-59-3P 159967-35-8P, Dodecyl  
 methacrylate-ethyl acrylate-methyl methacrylate block copolymer  
 159967-36-9P, Methyl acrylate-methyl methacrylate-stearyl  
 methacrylate block copolymer 159967-46-1P, Hexadecyl  
 methacrylate-vinyl acetate-vinyl propionate block copolymer  
 159967-47-2P 159967-48-3P 159967-49-4P  
 159967-50-7P 159967-51-8P 159967-52-9P  
 159967-53-0P 159967-54-1P 159967-55-2P  
 216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl  
 methacrylate-styrene block copolymer 339569-47-0P  
 RL: IMF (Industrial manufacture); POF (Polymer in  
 formulation); PRP (Properties); TEM (Technical or engineered  
 material use); PREP (Preparation); USES (Uses)  
 (star; preparation of oil-based ink for electrostatic ink-jet  
 printing)

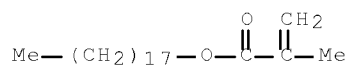
RN 150469-59-3 HCAPLUS

CN 2-Butenoic acid, polymer with ethenyl acetate and octadecyl  
 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

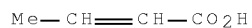
CMF C22 H42 O2



CM 2

CRN 3724-65-0

CMF C4 H6 O2



CM 3

CRN 108-05-4

CMF C4 H6 O2



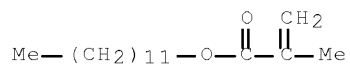
RN 159967-35-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with ethyl  
2-propenoate and methyl 2-methyl-2-propenoate, block (9CI) (CA  
INDEX NAME)

CM 1

CRN 142-90-5

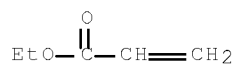
CMF C16 H30 O2



CM 2

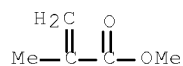
CRN 140-88-5

CMF C5 H8 O2



CM 3

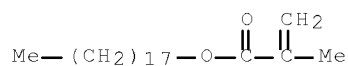
CRN 80-62-6  
CMF C5 H8 O2



RN 159967-36-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methyl  
2-propenoate and octadecyl 2-methyl-2-propenoate, block (9CI) (CA  
INDEX NAME)

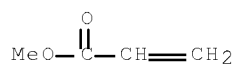
CM 1

CRN 32360-05-7  
CMF C22 H42 O2



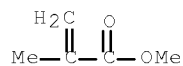
CM 2

CRN 96-33-3  
CMF C4 H6 O2



CM 3

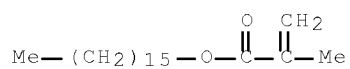
CRN 80-62-6  
CMF C5 H8 O2



RN 159967-46-1 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, hexadecyl ester, polymer with ethenyl  
acetate and ethenyl propanoate, block (9CI) (CA INDEX NAME)

CM 1

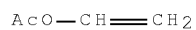
CRN 2495-27-4  
CMF C20 H38 O2



CM 2

CRN 108-05-4

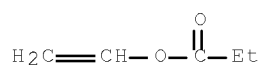
CMF C4 H6 O2



CM 3

CRN 105-38-4

CMF C5 H8 O2



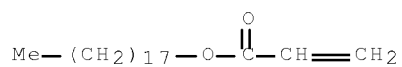
RN 159967-47-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with  
1-ethenyl-2-pyrrolidinone, methyl 2-methyl-2-propenoate, methyl  
2-propenoate and octadecyl 2-propenoate, block (9CI) (CA INDEX  
NAME)

CM 1

CRN 4813-57-4

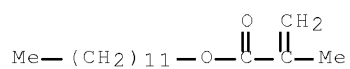
CMF C21 H40 O2



CM 2

CRN 142-90-5

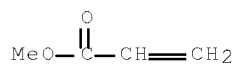
CMF C16 H30 O2



CM 3

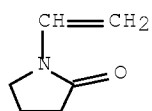


CRN 96-33-3  
CMF C4 H6 O2



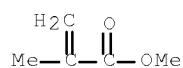
CM 4

CRN 88-12-0  
CMF C6 H9 N O



CM 5

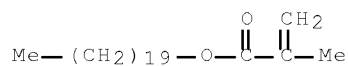
CRN 80-62-6  
CMF C5 H8 O2



RN 159967-48-3 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, eicosyl ester, polymer with  
phenylmethyl 2-methyl-2-propenoate and 2-propenoic acid, block (9CI)  
(CA INDEX NAME)

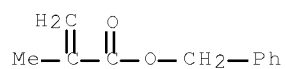
CM 1

CRN 45294-18-6  
CMF C24 H46 O2



CM 2

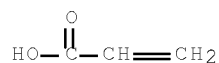
CRN 2495-37-6  
CMF C11 H12 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



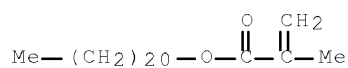
RN 159967-49-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with heneicosyl  
 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and methyl  
 2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 45296-31-9

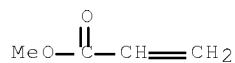
CMF C25 H48 O2



CM 2

CRN 96-33-3

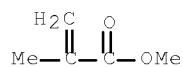
CMF C4 H6 O2



CM 3

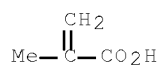
CRN 80-62-6

CMF C5 H8 O2



CM 4

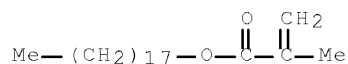
CRN 79-41-4  
CMF C4 H6 O2



RN 159967-50-7 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with octadecyl  
2-methyl-2-propenoate and 2-(phosphonooxy)ethyl  
2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

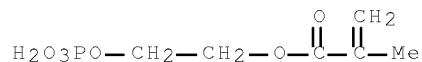
CM 1

CRN 32360-05-7  
CMF C22 H42 O2



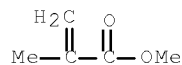
CM 2

CRN 24599-21-1  
CMF C6 H11 O6 P



CM 3

CRN 80-62-6  
CMF C5 H8 O2

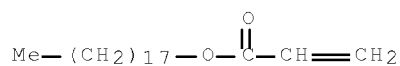


RN 159967-51-8 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer  
with ethyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl  
2-propenoate and tetradecyl 2-methyl-2-propenoate, block (9CI) (CA  
INDEX NAME)

CM 1

CRN 4813-57-4

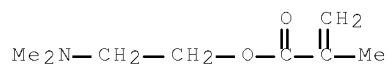
CMF C21 H40 O2



CM 2

CRN 2867-47-2

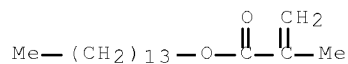
CMF C8 H15 N O2



CM 3

CRN 2549-53-3

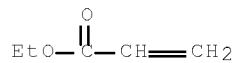
CMF C18 H34 O2



CM 4

CRN 140-88-5

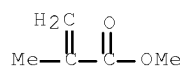
CMF C5 H8 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 159967-52-9 HCAPLUS

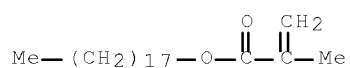
CN Dodecanoic acid, ethenyl ester, polymer with ethenyl acetate,  
methoxyethene and octadecyl 2-methyl-2-propenoate, block (9CI) (CA

INDEX NAME)

CM 1

CRN 32360-05-7

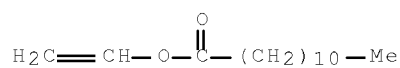
CMF C22 H42 O2



CM 2

CRN 2146-71-6

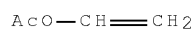
CMF C14 H26 O2



CM 3

CRN 108-05-4

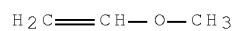
CMF C4 H6 O2



CM 4

CRN 107-25-5

CMF C3 H6 O



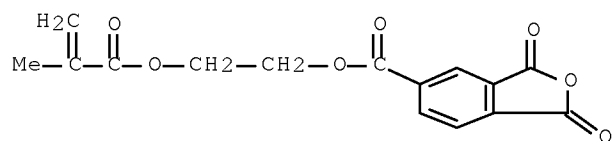
RN 159967-53-0 HCAPLUS

CN 5-Isobenzofurancarboxylic acid, 1,3-dihydro-1,3-dioxo-,  
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with eicosyl  
 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, block (9CI)  
 (CA INDEX NAME)

CM 1

CRN 70293-55-9

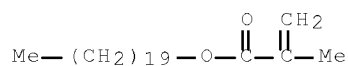
CMF C15 H12 O7



CM 2

CRN 45294-18-6

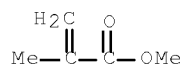
CMF C24 H46 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



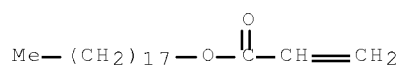
RN 159967-54-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, decyl ester, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-propenoate and 2-propenenitrile, block (9CI) (CA INDEX NAME)

CM 1

CRN 4813-57-4

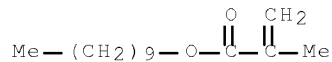
CMF C21 H40 O2



CM 2

CRN 3179-47-3

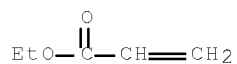
CMF C14 H26 O2



CM 3

CRN 140-88-5

CMF C5 H8 O2



CM 4

CRN 107-13-1

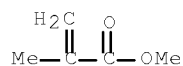
CMF C3 H3 N



CM 5

CRN 80-62-6

CMF C5 H8 O2



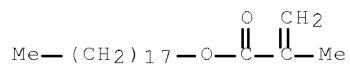
RN 159967-55-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with  
N,N-dimethyl-2-propenamide and octadecyl 2-methyl-2-propenoate,  
block (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

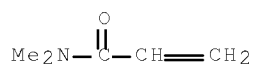
CMF C22 H42 O2



CM 2

CRN 2680-03-7

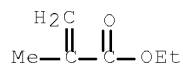
CMF C5 H9 N O



CM 3

CRN 97-63-2

CMF C6 H10 O2



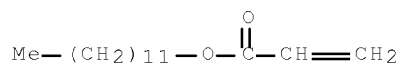
RN 216988-37-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecenyl ester, polymer with dodecyl  
2-propenoate, ethenylbenzene and 1-ethenyl-4-methylbenzene, block  
(9CI) (CA INDEX NAME)

CM 1

CRN 2156-97-0

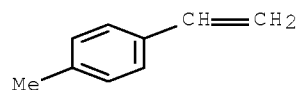
CMF C15 H28 O2



CM 2

CRN 622-97-9

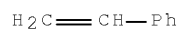
CMF C9 H10



CM 3

CRN 100-42-5

CMF C8 H8



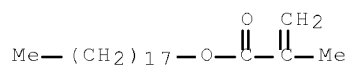
CM 4



CRN 51197-51-4  
 CMF C22 H40 O2  
 CCI IDS

CM 5

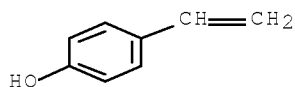
CRN 32360-05-7  
 CMF C22 H42 O2



RN 339569-47-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, tetradecenyl ester, polymer with  
 ethenylbenzene and 4-ethenylphenol, block (9CI) (CA INDEX NAME)

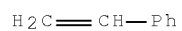
CM 1

CRN 2628-17-3  
 CMF C8 H8 O



CM 2

CRN 100-42-5  
 CMF C8 H8

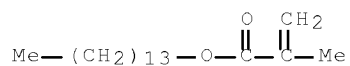


CM 3

CRN 339569-46-9  
 CMF C18 H32 O2  
 CCI IDS

CM 4

CRN 2549-53-3  
 CMF C18 H34 O2



IC ICM C09D011-00  
ICS B41J002-01; B41M005-00

CC 42-12 (Coatings, Inks, and Related Products)  
Section cross-reference(s): 74

IT Naphthenic acids, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(cobalt salts; preparation of oil-based ink for electrostatic ink-jet printing)

IT Dispersing agents  
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 150551-83-0 150551-89-6 150551-92-1 150551-93-2 150551-97-6  
154340-06-4 155293-25-7 159967-38-1 159967-39-2 159967-40-5  
159967-41-6 159967-42-7 159967-43-8 159967-44-9  
RL: CAT (Catalyst use); USES (Uses)  
(initiator; preparation of oil-based ink for electrostatic ink-jet printing)

IT 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester 139104-87-3P  
139104-90-8P 139105-03-6P 139105-08-1P  
139105-12-7P 141414-99-5P 141415-72-7P  
214835-07-1P 215877-54-6P 215877-61-5P  
217076-83-0P 333362-05-3P 339334-13-3P  
339334-16-6P 339334-20-2P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(macromer; preparation of oil-based ink for electrostatic ink-jet printing)

IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl acetate graft copolymer 339275-36-4P, Dodecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-37-5P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate-tridecyl methacrylate graft copolymer 339275-38-6P, Hexadecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl methacrylate graft copolymer 339275-40-0P  
339275-41-1P 339275-43-3P 339275-44-4P  
339275-46-6P 339275-47-7P 339275-48-8P  
339275-49-9P 339275-50-2P 339275-51-3P  
339275-52-4P 339275-53-5P 339275-55-7P  
339275-57-9P 339275-59-1P 339275-61-5P  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 2373-23-1 7440-67-7D, Zirconium, dioctylsulfosuccinic acid complex, uses 25719-52-2, Polydodecylmethacrylate  
RL: MOA (Modifier or additive use); USES (Uses)  
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 150469-59-3P 159967-35-8P, Dodecyl methacrylate-ethyl acrylate-methyl methacrylate block copolymer 159967-36-9P, Methyl acrylate-methyl methacrylate-stearyl

methacrylate block copolymer 159967-46-1P, Hexadecyl  
methacrylate-vinyl acetate-vinyl propionate block copolymer  
159967-47-2P 159967-48-3P 159967-49-4P  
159967-50-7P 159967-51-8P 159967-52-9P  
159967-53-0P 159967-54-1P 159967-55-2P  
216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl  
methacrylate-styrene block copolymer 339569-47-0P  
RL: IMF (Industrial manufacture); POF (Polymer in  
formulation); PRP (Properties); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)  
(star; preparation of oil-based ink for electrostatic ink-jet  
printing)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS  
RECORD (1 CITINGS)

L40 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2001:208075 HCAPLUS Full-text  
DOCUMENT NUMBER: 134:242427  
TITLE: Polymeric thickeners for oil-containing  
compositions  
INVENTOR(S): Bitler, Steven P.  
PATENT ASSIGNEE(S): Landec Corporation, USA  
SOURCE: PCT Int. Appl., 15 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
WO 2001019333	A1	20010322	WO 2000-US40780	200008 30
<--				
W: JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 7101928	B1	20060905	US 1999-398377	199909 17
<--				
EP 1212037	A1	20020612	EP 2000-974063	200008 30
<--				
EP 1212037	B1	20081119		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 2003509539	T	20030311	JP 2001-522968	200008 30
<--				
AT 414503	T	20081215	AT 2000-974063	200008 30
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EP 2030608	A1	20090304	EP 2008-168424	200008

30

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R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU,  
MC, NL, PT, SE

US 20050272615 A1 20051208 US 2005-199049

200508  
08

&lt;--

US 20050272618 A1 20051208 US 2005-199508

200508  
08

&lt;--

US 7449511 B2 20081111  
PRIORITY APPLN. INFO.:

US 1999-398377

A

199909  
17

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EP 2000-974063

A3

200008  
30

&lt;--

WO 2000-US40780

W

200008  
30

&lt;--

US 2001-810920

A3

200103  
16

&lt;--

AB Thickeners for oil-containing compns. are side chain crystalline polymers, which (a) are uniformly dispersed in the oil as a crystallized solid, (b) are soluble in the oil at temps. above  $T_p$ , and (c) are substantially free of carboxyl groups, carboxyl groups in the form of salts, sulfonic acid groups, and sulfonic acid groups in the form of salts. Polymers were obtained from octadecyl acrylate and 2-hydroxyethyl acrylate in the presence of chain-transfer agents and initiators.

IT ~~68563-63-3~~, 2-Hydroxyethyl acrylate-octadecyl acrylate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study);  
USES (Uses)

(polymeric thickeners for oil-containing compns.)

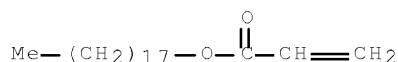
RN 68563-63-3 HCAPLUS

CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with octadecyl  
2-propenoate (CA INDEX NAME)

CM 1

CRN 4813-57-4

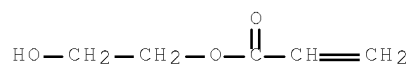
CMF C21 H40 O2



CM 2

CRN 818-61-1

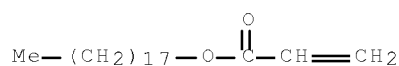
CMF C5 H8 O3



IT 25986-77-0P, Poly(octadecyl acrylate)  
 34364-62-0P, Methacrylic acid-octadecyl acrylate copolymer  
 108573-70-2P 128406-58-6P, Octadecyl  
 acrylate-1-vinyl-2-pyrrolidone copolymer 330625-75-7P  
 330625-76-8P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic  
 preparation); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (polymeric thickeners for oil-containing compns.)  
 RN 25986-77-0 HCAPLUS  
 CN 2-Propenoic acid, octadecyl ester, homopolymer (CA INDEX NAME)

CM 1

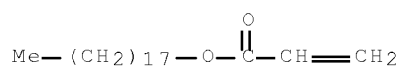
CRN 4813-57-4  
 CMF C21 H40 O2



RN 34364-62-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with octadecyl 2-propenoate  
 (CA INDEX NAME)

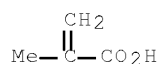
CM 1

CRN 4813-57-4  
 CMF C21 H40 O2



CM 2

CRN 79-41-4  
 CMF C4 H6 O2



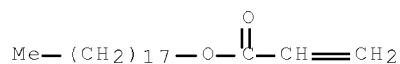
RN 108573-70-2 HCAPLUS

CN 2-Propenoic acid, 2-(dimethylamino)ethyl ester, polymer with  
octadecyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 4813-57-4

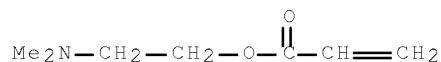
CMF C21 H40 O2



CM 2

CRN 2439-35-2

CMF C7 H13 N O2



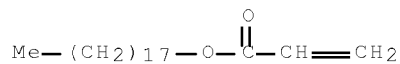
RN 128406-58-6 HCAPLUS

CN 2-Propenoic acid, octadecyl ester, polymer with  
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 4813-57-4

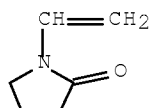
CMF C21 H40 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



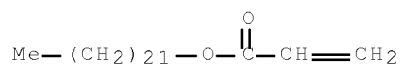
RN 330625-75-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with docosyl 2-propenoate (9CI)  
(CA INDEX NAME)

CM 1

CRN 18299-85-9

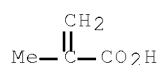
CMF C25 H48 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2



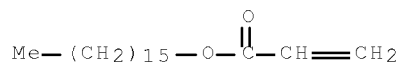
RN 330625-76-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with hexadecyl 2-propenoate  
(CA INDEX NAME)

CM 1

CRN 13402-02-3

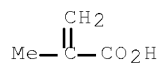
CMF C19 H36 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2



IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 37

IT 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, MethAcrylic  
acid, esters, polymers 68563-63-3, 2-Hydroxyethyl  
acrylate-octadecyl acrylate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(polymeric thickeners for oil-containing compns.)

IT 25986-77-0P, Poly(octadecyl acrylate)  
 34364-62-0P, Methacrylic acid-octadecyl acrylate copolymer  
 108573-70-2P 128406-58-6P, Octadecyl  
 acrylate-1-vinyl-2-pyrrolidone copolymer 330625-75-7P  
 330625-76-8P

RL: BUU (Biological use, unclassified); SPN (Synthetic  
 preparation); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(polymeric thickeners for oil-containing compns.)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS  
 RECORD (9 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L40 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:441697 HCAPLUS Full-text

DOCUMENT NUMBER: 133:81593

TITLE: Improvements in ink-jet media for better drying  
 times

INVENTOR(S): Baker, Julie; Higgins, John M.; Purbrick,  
 Malcolm D.

PATENT ASSIGNEE(S): Eastman Kodak Company, USA

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000037259	A1	20000629	WO 1999-GB4223	199912 14
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W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1054775	A1	20001129	EP 1999-959600	199912 14
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EP 1054775	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002532309	T	20021002	JP 2000-589351	199912 14
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US 6534157	B1	20030318	US 2000-622462	200009 25
<--				
PRIORITY APPLN. INFO.:				GB 1998-27980 A
				199812 19
<--				
WO 1999-GB4223				W



199912

14

&lt;--

AB An image-recording element for ink-jet ink images comprises a support, an ink-receptive layer and a top layer containing a hydrophilic component and a hydrophobic component, or a mixture of a polymer having  $\geq 2$  such polymers in an amount 0.003-0.5 g/m<sup>2</sup>. Thus, samples comprised a resin-coated paper support, coated with a gel layer on one side, and a gelatin ink-absorbing layer containing 848 mg/m<sup>2</sup> cationic latex polymer (m- and p-chloromethylethenylbenzene, 2-methyl-2-propenoic acid 1,2-ethanediyl ester, quaternized with N,N-dimethylmethanamine) and 129.16 mg/m<sup>2</sup> polymeric matte (polystyrene beads, 20  $\mu$ m) and a top layer (poly(Me methacrylate)) having thickness 0.005-0.1  $\mu$ m on the other side.

IT 25608-12-2P, Poly(acrylic acid) potassium salt  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (lightly crosslinked; rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

RN 25608-12-2 HCAPLUS

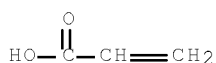
CN 2-Propenoic acid, homopolymer, potassium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
 CMF (C3 H4 O2)x  
 CCI PMS

CM 2

CRN 79-10-7  
 CMF C3 H4 O2



IT 9003-04-7DP, Poly(acrylic acid) sodium salt, graft polymers with polyethylene oxide 9003-05-8P, Polyacrylamide 9003-39-8P, Poly(vinylpyrrolidone) 9011-14-7P, Poly(methyl methacrylate) 25086-15-1P, Methacrylic acid-methyl methacrylate copolymer 27119-07-9P 57639-78-8P, Methyl methacrylate-poly(ethylene glycol) methacrylate copolymer 59326-44-2P, Acrylic acid-acrylamide copolymer potassium salt 60472-42-6P, Acrylic acid-maleic acid copolymer sodium salt  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

RN 9003-04-7 HCAPLUS

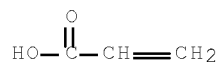
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
CMF (C3 H4 O2)x  
CCI PMS

CM 2

CRN 79-10-7  
CMF C3 H4 O2



RN 9003-05-8 HCAPLUS  
CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

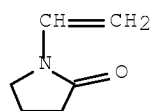
CRN 79-06-1  
CMF C3 H5 N O



RN 9003-39-8 HCAPLUS  
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0  
CMF C6 H9 N O



RN 9011-14-7 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (CA INDEX NAME)

CM 1

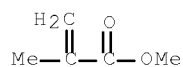
CRN 80-62-6  
CMF C5 H8 O2



RN 25086-15-1 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with methyl  
 2-methyl-2-propenoate (CA INDEX NAME)

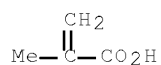
CM 1

CRN 80-62-6  
 CMF C5 H8 O2



CM 2

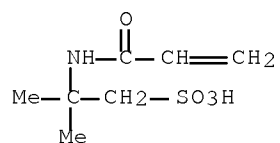
CRN 79-41-4  
 CMF C4 H6 O2



RN 27119-07-9 HCAPLUS  
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-,  
 homopolymer (CA INDEX NAME)

CM 1

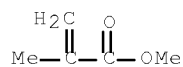
CRN 15214-89-8  
 CMF C7 H13 N O4 S



RN 57639-78-8 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
 $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl)  
 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 80-62-6  
 CMF C5 H8 O2



CM 2

CRN 9056-77-3

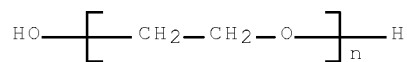
CMF C4 H6 O2 . x (C2 H4 O)n H2 O

CM 3

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

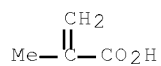
CCI PMS



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 59326-44-2 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide, potassium salt (CA INDEX NAME)

CM 1

CRN 9003-06-9

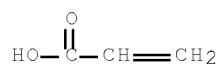
CMF (C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

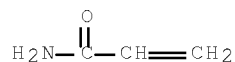
CRN 79-10-7

CMF C3 H4 O2



CM 3

CRN 79-06-1  
CMF C3 H5 N O



RN 60472-42-6 HCAPLUS  
CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid, sodium salt  
(CA INDEX NAME)

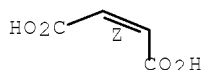
CM 1

CRN 29132-58-9  
CMF (C4 H4 O4 . C3 H4 O2)x  
CCI PMS

CM 2

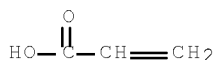
CRN 110-16-7  
CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 79-10-7  
CMF C3 H4 O2

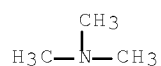


IT 142135-23-7  
RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)  
(rapid drying image-recording element for ink-jet ink images  
comprising support and ink-receptive layer and top layer containing  
acrylic polymers)  
RN 142135-23-7 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,2-ethanediyl) ester, polymer  
with 1-(chloromethyl)-3-ethenylbenzene and  
1-(chloromethyl)-4-ethenylbenzene, compd. with  
N,N-dimethylmethanamine (CA INDEX NAME)

CM 1

CRN 75-50-3

CMF C3 H9 N



CM 2

CRN 142135-22-6

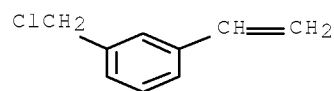
CMF (C10 H14 O4 . C9 H9 Cl . C9 H9 Cl)x

CCI PMS

CM 3

CRN 39833-65-3

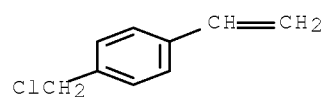
CMF C9 H9 Cl



CM 4

CRN 1592-20-7

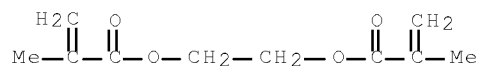
CMF C9 H9 Cl



CM 5

CRN 97-90-5

CMF C10 H14 O4



IC ICM B41M005-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 42, 43

IT Polyoxyalkylenes, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(graft polymers with poly(acrylic acid) sodium salt;  
rapid drying image-recording element for ink-jet ink images  
comprising support and ink-receptive layer and top layer containing  
acrylic polymers)

IT 25608-12-2P, Poly(acrylic acid) potassium salt  
RL: IMF (Industrial manufacture); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)  
(lightly crosslinked; rapid drying image-recording element for  
ink-jet ink images comprising support and ink-receptive layer and  
top layer containing acrylic polymers)

IT 9002-89-5P, Poly(vinyl alcohol) 9003-04-7DP,  
Poly(acrylic acid) sodium salt, graft polymers with  
polyethylene oxide 9003-05-8P, Polyacrylamide  
9003-39-8P, Poly(vinylpyrrolidone) 9011-14-7P,  
Poly(methyl methacrylate) 9012-76-4P, Chitosan 9080-79-9P,  
Poly(styrene) sulfonate sodium salt 25086-15-1P  
, Methacrylic acid-methyl methacrylate copolymer 25213-24-5P,  
Vinyl acetate-vinyl alcohol copolymer 25322-68-3DP, Polyethylene  
oxide, graft polymers with poly(acrylic acid) sodium salt  
27119-07-9P 57639-78-8P, Methyl  
methacrylate-poly(ethylene glycol) methacrylate copolymer  
59326-44-2P, Acrylic acid-acrylamide copolymer potassium  
salt 60472-42-6P, Acrylic acid-maleic acid  
copolymer sodium salt  
RL: IMF (Industrial manufacture); TEM (Technical or  
engineered material use); PREP (Preparation); USES (Uses)  
(rapid drying image-recording element for ink-jet ink images  
comprising support and ink-receptive layer and top layer containing  
acrylic polymers)

IT 142135-23-7  
RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)  
(rapid drying image-recording element for ink-jet ink images  
comprising support and ink-receptive layer and top layer containing  
acrylic polymers)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS  
RECORD (5 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L40 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:351210 HCAPLUS Full-text

DOCUMENT NUMBER: 132:348149

TITLE: Water-soluble or -dispersible graft  
copolymers based on a poly(vinyl lactam), their  
preparation and use

INVENTOR(S): Kim, Son Nguyen; Sanner, Axel; Hossel, Peter;  
Schehlmann, Volker

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1002811	A2	20000524	EP 1999-122635	
				199911 13
			<--	
EP 1002811	A3	20000719		
EP 1002811	B1	20020213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19853046	A1	20000525	DE 1998-19853046	199811 18
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AT 213256	T	20020215	AT 1999-122635	199911 13
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ES 2172972	T3	20021001	ES 1999-122635	199911 13
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US 6329472	B1	20011211	US 1999-441092	199911 16
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JP 2000178323	A	20000627	JP 1999-327139	199911 17
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CN 1257880	A	20000628	CN 1999-127747	199911 18
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CN 1138799	C	20040218		
PRIORITY APPLN. INFO.:			DE 1998-19853046	A 199811 18
			<--	
AB	The copolymers (K value 30-70), especially useful in hair-setting prepns., are prepared by graft polymerizing CH <sub>2</sub> :CR <sub>1</sub> COXCM <sub>3</sub> (X = O, NR <sub>2</sub> ; R <sub>1</sub> , R <sub>2</sub> = H, C <sub>1</sub> -6 alkyl) 50-85, CO <sub>2</sub> H-containing vinyl monomer(s) 15-30, and CH <sub>2</sub> :CR <sub>1</sub> COXR (R = C <sub>6</sub> -30 alkyl) 0-25 weight% onto a polymer (K value 30-50) containing ≥30% units derived from ≥1 N-vinyl lactam with a (5-7)-membered ring to give a polymer with grafted portion/backbone weight ratio 100:(5-200), which is at least partially neutralized. Thus, 150 g N-vinylcaprolactam was polymerized for 18 h at 80° in EtOH with tert-Bu perpivalate as initiator, and the resulting polymer solution was mixed with 60.0 g methacrylic acid and 240 g tert-Bu acrylate in addnl. EtOH and polymerized 11 h at 80°, then 95% neutralized with 2-amino-2-methyl-1-propanol to give a polymer solution which could be directly included in an aerosol hair spray formulation.			
IT	269747-34-4P, tert-Butyl acrylate-methacrylic acid-N-vinylcaprolactam graft copolymer 2-amino-2-methyl-1-propanol salt 269747-36-6P 269747-38-8P 269747-40-2P 269747-42-4P 269747-44-6P 269747-46-8P 269747-48-0P RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of water-soluble or -dispersible graft copolymers based on a poly(vinyl lactam) for use in hair prepns.)			
RN	269747-34-4 HCAPLUS			

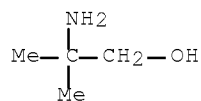


CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
2-propenoate and 1-ethenylhexahydro-2H-azepin-2-one, graft, compd.  
with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-33-3

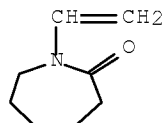
CMF (C8 H13 N O . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 3

CRN 2235-00-9

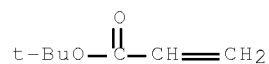
CMF C8 H13 N O



CM 4

CRN 1663-39-4

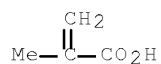
CMF C7 H12 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



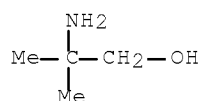
RN 269747-36-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and  
1-ethenyl-2-pyrrolidinone, graft, compd. with  
2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-35-5

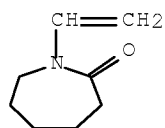
CMF (C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 2235-00-9

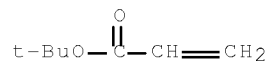
CMF C8 H13 N O



CM 4

CRN 1663-39-4

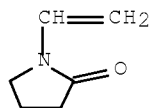
CMF C7 H12 O2



CM 5

CRN 88-12-0

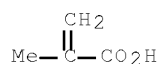
CMF C6 H9 N O



CM 6

CRN 79-41-4

CMF C4 H6 O2



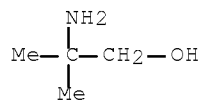
RN 269747-38-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with  
 N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide,  
 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one  
 and 1-ethenyl-2-pyrrolidinone, graft, compd. with  
 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-37-7

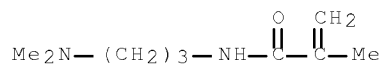
CMF (C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 5205-93-6

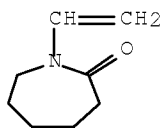
CMF C9 H18 N2 O



CM 4

CRN 2235-00-9

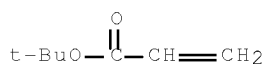
CMF C8 H13 N O



CM 5

CRN 1663-39-4

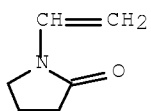
CMF C7 H12 O2



CM 6

CRN 88-12-0

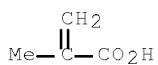
CMF C6 H9 N O



CM 7

CRN 79-41-4

CMF C4 H6 O2



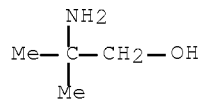
RN 269747-40-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
2-propenoate and 1-ethenyl-2-pyrrolidinone, graft, compd. with  
2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-39-9

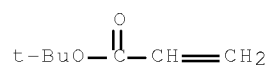
CMF (C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 1663-39-4

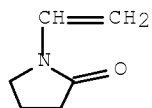
CMF C7 H12 O2



CM 4

CRN 88-12-0

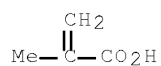
CMF C6 H9 N O



CM 5

CRN 79-41-4

CMF C4 H6 O2



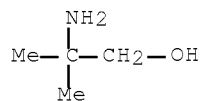
RN 269747-42-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and octadecyl  
 2-methyl-2-propenoate, graft, compd. with  
 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-41-3

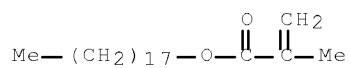
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 3

CRN 32360-05-7

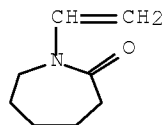
CMF C22 H42 O2



CM 4

CRN 2235-00-9

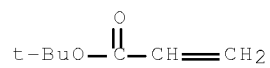
CMF C8 H13 N O



CM 5

CRN 1663-39-4

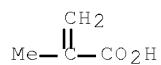
CMF C7 H12 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



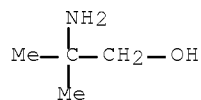
RN 269747-44-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one,  
 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate,  
 graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX  
 NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-43-5

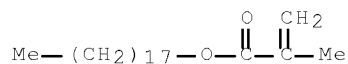
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 32360-05-7

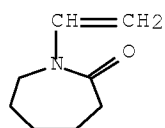
CMF C22 H42 O2



CM 4

CRN 2235-00-9

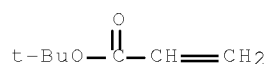
CMF C8 H13 N O



CM 5

CRN 1663-39-4

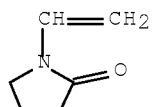
CMF C7 H12 O2



CM 6

CRN 88-12-0

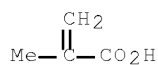
CMF C6 H9 N O



CM 7

CRN 79-41-4

CMF C4 H6 O2



RN 269747-46-8 HCAPLUS

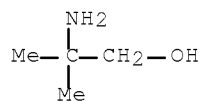
CN 2-Propenoic acid, 2-methyl-, polymer with  
 N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide,  
 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one,  
 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate,  
 graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX  
 NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O





CM 2

CRN 269747-45-7

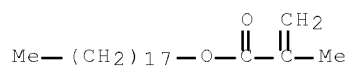
CMF (C22 H42 O2 . C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 32360-05-7

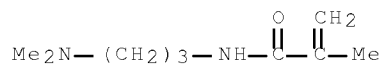
CMF C22 H42 O2



CM 4

CRN 5205-93-6

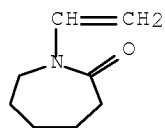
CMF C9 H18 N2 O



CM 5

CRN 2235-00-9

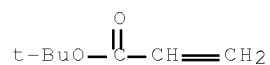
CMF C8 H13 N O



CM 6

CRN 1663-39-4

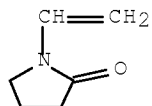
CMF C7 H12 O2



CM 7

CRN 88-12-0

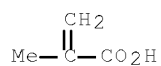
CMF C6 H9 N O



CM 8

CRN 79-41-4

CMF C4 H6 O2



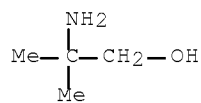
RN 269747-48-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl  
2-propenoate, 1-ethenyl-2-pyrrolidinone and octadecyl  
2-methyl-2-propenoate, graft, compd. with  
2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-47-9

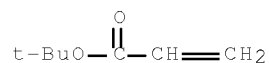
CMF (C22 H42 O2 . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

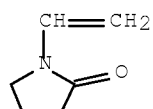
CM 3

$$\text{Me}-(\text{CH}_2)_{17}-\text{O}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\overset{\text{CH}_2}{\underset{\parallel}{\text{C}}}-\text{Me}$$

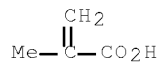
CRN 1663-39-4  
CMF C7 H12 O2



CRN 88-12-0  
CMF C6 H9 N O



CRN 79-41-4  
CMF C4 H6 O2



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IC      ICM      C08F271-02
        ICS      A61K007-06
CC      35-4 (Chemistry of Synthetic High Polymers)
        Section cross-reference(s): 62
IT      Hair preparations
        (sprays; water-soluble or -dispersible graft copolymers
        based on a poly(vinyl lactam) for use in)
IT      Cosmetics
        Drug delivery systems
        (water-soluble or -dispersible graft copolymers based on a
        poly(vinyl lactam) for use in)
IT      269747-34-4P, tert-Butyl acrylate-methacrylic

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acid-N-vinylcaprolactam graft copolymer 2-amino-2-methyl-1-propanol  
 salt 269747-36-6P 269747-38-8P  
 269747-40-2P 269747-42-4P 269747-44-6P  
 269747-46-8P 269747-48-0P

RL: BUU (Biological use, unclassified); IMF (Industrial  
 manufacture); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(preparation of water-soluble or -dispersible graft copolymers  
 based on a poly(vinyl lactam) for use in hair prepns.)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS  
 RECORD (4 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L40 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:31151 HCAPLUS Full-text

DOCUMENT NUMBER: 128:102540

ORIGINAL REFERENCE NO.: 128:20103a,20106a

TITLE: Carboxy group-containing polymer (salt  
 ) and its preparation as a dispersion  
 or redispersible powder for use as thickener in  
 aqueous systems

INVENTOR(S): Kuropka, Rolf

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No.  
 250,441, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5705553	A	19980106	US 1995-555878	199511 13
DE 4318033	A1	19941201	DE 1993-4318033	199305 29
DE 4318033	C2	19960829	DE 1993-4318033	199305 29
PRIORITY APPLN. INFO.:			US 1994-250441	B2 199405 27

AB Copolymers based on ethylenically unsatd. carboxylic acid (anhydrides) and  
 copolymerizable methacrylic acid esters or acrylic acid esters of aliphatic  
 C1-22 alcs. and other monomers, which contain  $\geq 24\%$  of monomers carrying  
 carboxyl groups, are prepared by emulsion copolymn. initiated by free radicals  
 in the presence of poly(vinyl alc.) (PVA) or poly(vinylpyrrolidone) (PVP)  
 dissolved in the aqueous phase, and optionally removal of H<sub>2</sub>O by spray drying  
 to obtain redispersible copolymer powders. Thus, a stable dispersion was

produced from the ammonium copolymer salt of methacrylic acid, Me methacrylate, grafted polyvinyl alc. protective colloid.

IT 201351-78-2P, Methacrylic acid-methyl methacrylate-vinyl alcohol graft copolymer ammonium salt

201351-79-3P, Methacrylic acid-methyl methacrylate-vinylpyrrolidone graft copolymer ammonium salt

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (carboxy group-containing polymer (salt) dispersion or redispersible powder for use as thickener in aqueous systems)

RN 201351-78-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenol and methyl 2-methyl-2-propenoate, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 171970-79-9

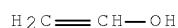
CMF (C5 H8 O2 . C4 H6 O2 . C2 H4 O)x

CCI PMS

CM 2

CRN 557-75-5

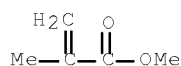
CMF C2 H4 O



CM 3

CRN 80-62-6

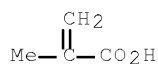
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 201351-79-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and methyl 2-methyl-2-propenoate, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 154830-99-6

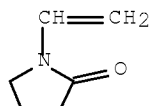
CMF (C6 H9 N O . C5 H8 O2 . C4 H6 O2)x

CCI PMS

CM 2

CRN 88-12-0

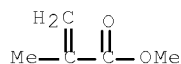
CMF C6 H9 N O



CM 3

CRN 80-62-6

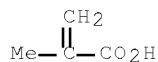
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



IC ICM C08F002-16

INCL 524459000

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 42

ST methacrylic acid graft copolymer ~~salt~~ thickener;methacrylate graft copolymer ~~salt~~ thickener; vinyl alcgraft copolymer ~~salt~~ thickener; copolymerizable surfactantgraft copolymer ~~salt~~ thickener

IT Pickling

(agents; carboxy group-containing polymer (~~salt~~))~~dispersion~~ or redispersible powder for use as thickener

in aqueous formulations of)

IT Cement (construction material)

Concrete

Cosmetics

Detergents

Drilling fluids  
Herbicides  
Mortar  
Pesticides  
    (carboxy group-containing polymer (salt) dispersion  
    or redispersible powder for use as thickener in aqueous formulations  
    of)

IT Fertilizers  
Lime (chemical)  
RL: MSC (Miscellaneous)  
    (carboxy group-containing polymer (salt) dispersion  
    or redispersible powder for use as thickener in aqueous formulations  
    of)

IT Thickening agents  
    (carboxy group-containing polymer (salt) dispersion  
    or redispersible powder for use as thickener in aqueous systems)

IT Alcohols, preparation  
RL: IMF (Industrial manufacture); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)  
    (ethoxylated, crotonate, polymer with methacrylate, methacrylic  
acid, and protective colloid, salt; carboxy  
group-containing polymer (salt) dispersion or  
redispersible powder for use as thickener in aqueous systems)

IT Paints  
    (latex; carboxy group-containing polymer (salt)  
dispersion or redispersible powder for use as thickener  
in aqueous formulations of)

IT Textile printing  
Textile printing  
    (pastes; carboxy group-containing polymer (salt)  
dispersion or redispersible powder for use as thickener  
in aqueous formulations of)

IT Pastes  
Pastes  
    (textile printing; carboxy group-containing polymer (salt)  
dispersion or redispersible powder for use as thickener  
in aqueous formulations of)

IT 79-41-4DP, polymer with methacrylate, protective colloid  
and cosurfactant, salt 80-62-6DP, polymer with  
methacrylic acid, protective colloid and cosurfactant,  
salt 9002-89-5DP, Poly(vinyl alcohol), polymer with  
methacrylic acid, methacrylate, and cosurfactant, salt  
201351-78-2P, Methacrylic acid-methyl methacrylate-vinyl  
alcohol graft copolymer ammonium salt  
201351-79-3P, Methacrylic acid-methyl  
methacrylate-vinylpyrrolidone graft copolymer ammonium salt  
RL: IMF (Industrial manufacture); TEM (Technical or  
engineered material use); PREP (Preparation); USES (Uses)  
    (carboxy group-containing polymer (salt) dispersion  
    or redispersible powder for use as thickener in aqueous systems)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS  
RECORD (6 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L40 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1997:464306 HCAPLUS Full-text  
DOCUMENT NUMBER: 127:140583  
ORIGINAL REFERENCE NO.: 127:27021a,27024a

TITLE: Adhesive preparations containing bakuhanseki, a kind of quartz porphyry  
 INVENTOR(S): Yoneto, Kunio; Udagawa, Hiroko; Nishida, Naoko  
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 09169633	A	19970630	JP 1995-334902	199512 22
			<--	
JP 3497309	B2	20040216	JP 1995-334902	199512 22
PRIORITY APPLN. INFO.:				

AB The preps. comprise a support having thereon an adhesive layer containing (A) acrylic adhesives, (B) bakuhanseki (C) polyhydric alcs., and (D) drugs. Alternately, the adhesive layer contains (A), (B), (C) water-absorbing polymers, and (D); acrylic emulsion adhesives, (B), and (D); or water-soluble polymers, (B), and (D). The adhesive preps. enable good transdermal absorption of drugs and show less skin-irritating action. A polyester release paper was coated with a composition containing glycerin, bakuhanseki, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer, indomethacin (I), and AcOEt and the adhesive layer was laminated with a polyethylene film to give an adhesive preparation. Permeation of I from the preparation through a sheet of nude mouse skin at 37° for 24 h was 40.3 µg/cm<sup>2</sup>, vs. 25.2 µg/cm<sup>2</sup> for a control preparation containing no bakuhanseki.

IT 28554-24-7, 2-Ethylhexyl acrylate-methyl acrylate copolymer

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (Nikazol TS 620; topical adhesive preps. containing bakuhanseki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

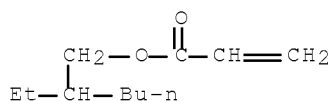
RN 28554-24-7 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with methyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2





CM 2

CRN 96-33-3

CMF C4 H6 O2

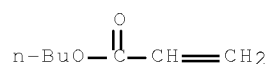


IT 25035-82-9, Butyl acrylate-methacrylic acid copolymer  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(Primal N 580NF; topical adhesive prepns. containing bakuhansaki  
(quartz porphyrin) and polyhydric alcs. or water-absorbing or  
water-soluble polymers)  
RN 25035-82-9 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate (CA  
INDEX NAME)

CM 1

CRN 141-32-2

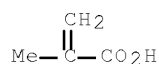
CMF C7 H12 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2

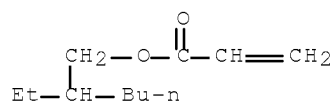


IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl  
acrylate-2-hydroxyethyl methacrylate copolymer  
RL: PNU (Preparation, unclassified); THU (Therapeutic  
use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(topical adhesive prepns. containing bakuhansaki (quartz porphyrin)  
and polyhydric alcs. or water-absorbing or water-soluble polymers)  
RN 27234-90-8 HCAPLUS  
CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with  
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 103-11-7

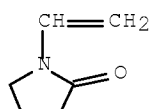
CMF C11 H20 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



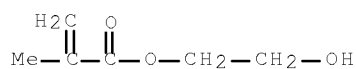
RN 34150-07-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with  
2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 868-77-9

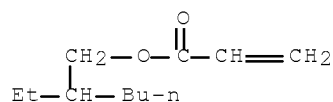
CMF C6 H10 O3



CM 2

CRN 103-11-7

CMF C11 H20 O2



IT 9003-04-7, Hiviswako 105 60908-64-7,

Polyacrylic acid aluminum sodium salt

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(topical adhesive prepns. containing bakuhansaki (quartz porphyrin)  
and polyhydric alcs. or water-absorbing or water-soluble polymers)

RN 9003-04-7 HCAPLUS

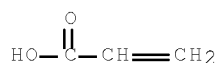
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
 CMF (C3 H4 O2)x  
 CCI PMS

CM 2

CRN 79-10-7  
 CMF C3 H4 O2



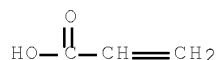
RN 60908-64-7 HCAPLUS  
 CN 2-Propenoic acid, homopolymer, aluminum sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
 CMF (C3 H4 O2)x  
 CCI PMS

CM 2

CRN 79-10-7  
 CMF C3 H4 O2



IC ICM A61K009-70  
 ICS A61K009-70; C09J007-02  
 CC 63-6 (Pharmaceuticals)  
 IT ~~28554-24-7~~, 2-Ethylhexyl acrylate-methyl acrylate copolymer  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (Nikasol TS 620; topical adhesive prepns. containing bakuhanseki (quartz porphyr) and polyhydric alcs. or water-absorbing or water-soluble polymers)  
 IT ~~25035-82-9~~, Butyl acrylate-methacrylic acid copolymer  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (Primal N 580NF; topical adhesive prepns. containing bakuhanseki (quartz porphyr) and polyhydric alcs. or water-absorbing or water-soluble polymers)  
 IT ~~27234-90-8P~~ ~~34150-07-7P~~, 2-Ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer  
 RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (topical adhesive prepns. containing bakuhanseki (quartz porphyr) and polyhydric alcs. or water-absorbing or water-soluble polymers)  
 IT 56-81-5, Glycerin, biological studies 57-55-6, Propylene glycol, biological studies 9003-04-7, Hiviswako 105 9004-32-4,

Sodium carboxymethyl cellulose 60908-64-7, Polyacrylic  
acid aluminum sodium salt 76633-00-6, Kollidon CL  
192587-39-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical adhesive prepns. containing bakuhansaki (quartz porphyry)  
and polyhydric alcs. or water-absorbing or water-soluble polymers)

L40 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:464305 HCAPLUS Full-text

DOCUMENT NUMBER: 127:99857

ORIGINAL REFERENCE NO.: 127:19149a,19152a

TITLE: Adhesive preparations containing fermented rice  
extract

INVENTOR(S): Udagawa, Hiroko; Yoneto, Kunio; Nishida, Naoko

PATENT ASSIGNEE(S): Sekisui Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 09169632	A	19970630	JP 1995-334896	199512 22
			<--	
JP 3497308	B2	20040216		
PRIORITY APPLN. INFO.:			JP 1995-334896	199512 22

<--

AB The prepns. comprise a support having thereon an adhesive layer containing (A) acrylic adhesives, (B) fermented rice extract, (C) polyhydric alcs., and (D) drugs. Alternately, the adhesive layer contains (A), water-absorbing polymers, (B), and (D); acrylic emulsion adhesives, (B), and (D); or water-soluble polymers, (B), and (D). The adhesive prepns. enable good transdermal absorption of drugs and show less skin-irritating action. A polyester film was coated with a composition containing glycerin, fermented rice extract, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer, and indomethacin (I) to give an adhesive preparation. Permeation of I from the preparation through a sheet of nude mouse skin at 37° for 24 h was 51.4 µg/cm<sup>2</sup>, vs. 25.2 µg/cm<sup>2</sup> for a control preparation containing no fermented rice extract.

IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl  
acrylate-2-hydroxyethyl methacrylate copolymer  
RL: PNU (Preparation, unclassified); THU (Therapeutic  
use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(topical adhesive prepns. containing fermented rice extract and  
polyhydric alcs. or water-absorbing or water-soluble polymers)

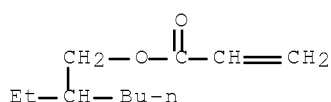
RN 27234-90-8 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with  
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 103-11-7

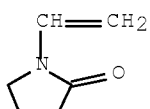
CMF C11 H20 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



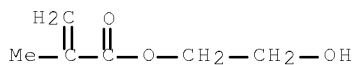
RN 34150-07-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with  
2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 868-77-9

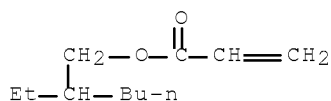
CMF C6 H10 O3



CM 2

CRN 103-11-7

CMF C11 H20 O2



IT 9003-04-7, Hiviswako 105 25035-82-9, Butyl  
acrylate-methacrylic acid copolymer 28554-24-7,  
2-Ethylhexyl acrylate-methyl acrylate copolymer 60908-64-7  
, Polyacrylic acid aluminum sodium salt

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical adhesive preps. containing fermented rice extract and  
polyhydric alcs. or water-absorbing or water-soluble polymers)

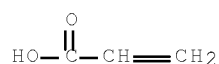
RN 9003-04-7 HCAPLUS  
 CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
 CMF (C3 H4 O2)x  
 CCI PMS

CM 2

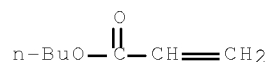
CRN 79-10-7  
 CMF C3 H4 O2



RN 25035-82-9 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate (CA INDEX NAME)

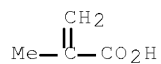
CM 1

CRN 141-32-2  
 CMF C7 H12 O2



CM 2

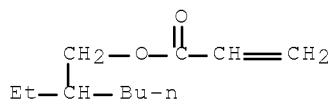
CRN 79-41-4  
 CMF C4 H6 O2



RN 28554-24-7 HCAPLUS  
 CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with methyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 103-11-7  
 CMF C11 H20 O2



CM 2

CRN 96-33-3

CMF C4 H6 O2



RN 60908-64-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, aluminum sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

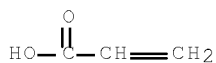
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



IC ICM A61K009-70

ICS C09J007-02

CC 63-6 (Pharmaceuticals)

IT 27234-90-8P 34150-07-7F, 2-Ethylhexyl

acrylate-2-hydroxyethyl methacrylate copolymer

RL: FNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses)

(topical adhesive preps. containing fermented rice extract and polyhydric alcs. or water-absorbing or water-soluble polymers)

IT 56-81-5, 1,2,3-Propanetriol, biological studies 9003-04-7

, Hiviswako 105 9004-32-4, Sodium carboxymethyl cellulose

25035-82-9, Butyl acrylate-methacrylic acid copolymer

25322-68-3 28554-24-7, 2-Ethylhexyl acrylate-methyl

acrylate copolymer 60908-64-7, Polyacrylic acid aluminum

sodium salt 76633-00-6, Kollidon CL

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(topical adhesive preps. containing fermented rice extract and polyhydric alcs. or water-absorbing or water-soluble polymers)

September 12, 2009

10/591,796

152

L40 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:997882 HCAPLUS Full-text

DOCUMENT NUMBER: 124:121785

ORIGINAL REFERENCE NO.: 124:22581a,22584a

TITLE: Temperature- and salt-resistant  
water-soluble photopolymers

INVENTOR(S): Li, Miaozen; Chang, Zhiying; Nie, Jun

PATENT ASSIGNEE(S): Chinese Academy of Sciences, Sensitization  
Chemistry Institute, Peop. Rep. ChinaSOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9  
pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
----- CN 1105675	A	19950726	CN 1994-100644	199401 20
			<--	
CN 1056856	C	20000927		
PRIORITY APPLN. INFO.:			CN 1994-100644	199401 20
			<--	

AB Water-soluble photopolymers comprise monomers of (1) acrylamide and its derivs., (2) (meth)acrylic acid esters, (3) N-vinylpyrrolidones, and (4) vinyl aliphatic sulfonates; the polymers are prepared under UV light or visible light with initiator in an aqueous solution for (1,4)-, (1,3,4)- and (1,2,3,4)-photopolymn. The total concentration of the monomers is 10-45 weight% and the polymer contains >30 weight% (4) monomers. The photopolymers are useful as viscosifiers, emulsion dispersants and oil repellents for petroleum tertiary recovery.

IT 40623-73-2P, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid copolymer 83383-93-1P  
173028-02-9P

RL: NUU (Other use, unclassified); PREP (Preparation, unclassified); PREP (Preparation); USES (Uses)

(by photopolymn.; temperature- and salt-resistant water-soluble photopolymers for petroleum tertiary recovery)

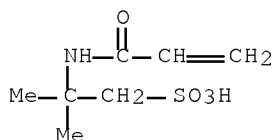
RN 40623-73-2 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S

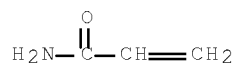




CM 2

CRN 79-06-1

CMF C3 H5 N O



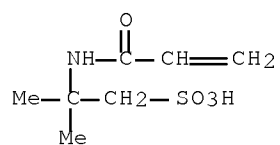
RN 83383-93-1 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (CA INDEX NAME)

CM 1

CRN 15214-89-8

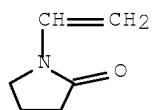
CMF C7 H13 N O4 S



CM 2

CRN 88-12-0

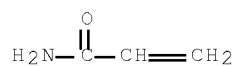
CMF C6 H9 N O



CM 3

CRN 79-06-1

CMF C3 H5 N O



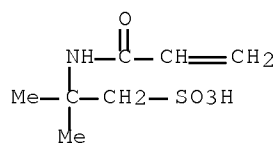
RN 173028-02-9 HCAPLUS

CN 2-Propenoic acid, 2-hydroxypropyl ester, polymer with  
1-ethenyl-2-pyrrolidinone, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-  
propanesulfonic acid and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

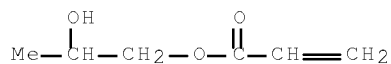
CMF C7 H13 N O4 S



CM 2

CRN 999-61-1

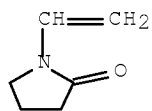
CMF C6 H10 O3



CM 3

CRN 88-12-0

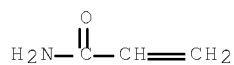
CMF C6 H9 N O



CM 4

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08F220-56

ICS C08F220-06; C08F212-04; C08F002-48

CC 51-2 (Fossil Fuels, Derivatives, and Related Products)  
 Section cross-reference(s): 35

ST temp ~~salt~~ resistance water soluble photopolymer;  
 acrylamide acrylate vinylpyrrolidone sulfonate photopolymn;  
 petroleum recovery tertiary photopolymer prepn

IT Polymerization  
 (photochem., in preparation of temperature- and ~~salt~~-resistant  
 water-soluble photopolymers for petroleum tertiary recovery)

IT Petroleum recovery  
 (tertiary, preparation of temperature- and ~~salt~~-resistant  
 water-soluble photopolymers for)

IT 40623-73-2P, Acrylamide-2-acrylamido-2-  
 methylpropanesulfonic acid copolymer 83383-93-1P  
 173028-02-9P  
 RL: NUU (Other use, unclassified); PNU (Preparation,  
 unclassified); PREP (Preparation); USES (Uses)  
 (by photopolymn.; temperature- and ~~salt~~-resistant water-soluble  
 photopolymers for petroleum tertiary recovery)

IT 6252-00-2 6652-28-4, Benzoin isopropyl ether 24650-42-8  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (initiator; in preparation of temperature- and ~~salt~~-  
 -resistant water-soluble photopolymers for petroleum tertiary  
 recovery)

L40 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:746488 HCAPLUS Full-text

DOCUMENT NUMBER: 123:288963

ORIGINAL REFERENCE NO.: 123:51737a,51740a

TITLE: Peelable pressure-sensitive adhesive  
 compositions and pressure-sensitive tapes or  
 sheets therewith

INVENTOR(S): Horata, Mitsuru; Tozaki, Yutaka; Kawanishi,  
 Michio

PATENT ASSIGNEE(S): Nitto Denko Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

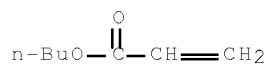
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07138545	A	19950530	JP 1993-284813	199311 15
			<--	
JP 3339938	B2	20021028		
PRIORITY APPLN. INFO.:			JP 1993-284813	199311 15
			<--	

AB Adhesives contain water-~~dispersed~~ acrylic copolymers (average particle size  
 $\leq 100 \mu\text{m}$ ) of (meth)acrylic acid C4-14 alkyl esters 50-97, monomers having H-  
 free amide linkages 2-20, and monomers having CO<sub>2</sub>H or anhydrides and/or  
 nitrile groups in the side chains 1-30. Thus, Bu acrylate 95, N,N-  
 dimethylacrylamide 3, acrylonitrile 2, VA 58 (polymerization initiator) 0.3,  
 and Pelex SS-L (alkyldiphenyl ether disulfonate Na ~~salt~~) 2 parts were treated  
 at 65° for 6 h in H<sub>2</sub>O, adjusted to pH 7, applied to a polyester film, and

dried to give a pressure-sensitive tape, which showed adhesion strength 530 g/18 mm to an acrylic plate (JIS Z-0237).

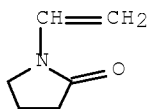
IT 92674-82-3P 169504-82-9P  
169504-83-0P 169504-84-1P  
RL: IMF (Industrial manufacture); PRP (Properties); TEM  
(Technical or engineered material use); PREP (Preparation)  
; USES (Uses)  
(peelable pressure-sensitive adhesives containing water-  
dispersed acrylic resins)  
RN 92674-82-3 HCAPLUS  
CN 2-Propenoic acid, butyl ester, polymer with  
1-ethenyl-2-pyrrolidinone and 2-propenenitrile (9CI) (CA INDEX  
NAME)  
  
CM 1  
  
CRN 141-32-2  
CMF C7 H12 O2



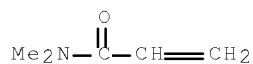
CM 2  
  
CRN 107-13-1  
CMF C3 H3 N



CM 3  
  
CRN 88-12-0  
CMF C6 H9 N O

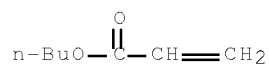


RN 169504-82-9 HCAPLUS  
CN 2-Propenoic acid, butyl ester, polymer with  
N,N-dimethyl-2-propenamide and 2-propenenitrile (9CI) (CA INDEX  
NAME)  
  
CM 1  
  
CRN 2680-03-7  
CMF C5 H9 N O



CM 2

CRN 141-32-2  
CMF C7 H12 O2



CM 3

CRN 107-13-1  
CMF C3 H3 N

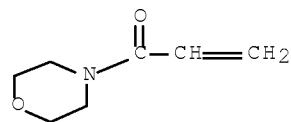


RN 169504-83-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate and 4-(1-oxo-2-propenyl)morpholine (9CI) (CA INDEX NAME)

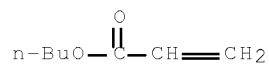
CM 1

CRN 5117-12-4  
CMF C7 H11 N O2



CM 2

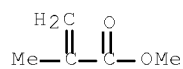
CRN 141-32-2  
CMF C7 H12 O2



CM 3

CRN 80-62-6

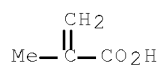
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 169504-84-1 HCAPLUS

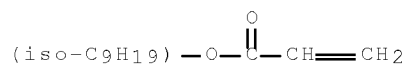
CN 2-Propenoic acid, polymer with N,N-dimethyl-2-propenamide and  
isononyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 51952-49-9

CMF C12 H22 O2

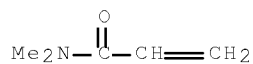
CCI IDS



CM 2

CRN 2680-03-7

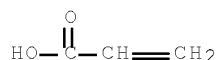
CMF C5 H9 N O



CM 3

CRN 79-10-7

CMF C3 H4 O2



IC ICM C09J133-08  
ICS C09J007-02  
CC 38-3 (Plastics Fabrication and Uses)  
IT Adhesives  
(water-thinned, peelable pressure-sensitive adhesives containing water-dispersed acrylic resins)  
IT 92674-82-3P 169504-82-9P  
169504-83-0P 169504-84-1P  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(peelable pressure-sensitive adhesives containing water-dispersed acrylic resins)

L40 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1995:620124 HCAPLUS Full-text  
DOCUMENT NUMBER: 123:17986  
ORIGINAL REFERENCE NO.: 123:3351a,3354a  
TITLE: adhesive taps for wound healing  
INVENTOR(S): Setoguchi, Juji  
PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07097316	A	19950411	JP 1993-242743	19930929
			<--	
JP 3253431	B2	20020204		
PRIORITY APPLN. INFO.:			JP 1993-242743	19930929

AB Adhesive taps for wound healing comprise a urethane film support having thereon an adhesive layer of (meth)acrylic acid alkyl ester polymers and an adhesive layer composed of 100 parts water-soluble or water-swellaable polymers selected from poly(acrylic acid) (metal salts), crosslinked poly(acrylic acid) (salts), Na alginate, hydroxypropyl cellulose, gelatin, casein, poly(vinyl alc.), and CM-cellulose (salts) and 200-1000 parts H2O. The tapes are permeable to water vapor but nonpermeable to bacteria and water. The tapes are readily removable after application. A silicone-treated PET film was coated with a composition containing 2-ethylhexyl acrylate-vinylpyrrolidone copolymer and the adhesive layer was transferred onto a SILKLON film (polyurethane). The adhesive layer was further coated with a composition containing Hiviswako, Cellogen (Na carboxyvinyl cellulose), and H2O to give a medical adhesive tape.

IT 27234-90-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (adhesive taps for wound healing)

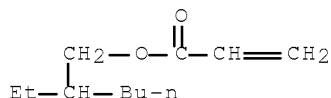
RN 27234-90-8 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 103-11-7

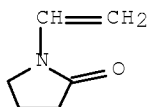
CMF C11 H20 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



IT 9003-04-7, Aronvis

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (adhesive taps for wound healing)

RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

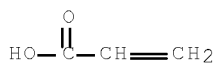
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 9003-01-4, Poly(acrylic acid)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)



(crosslinked; adhesive taps for wound healing)

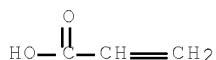
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



IC ICM A61K009-70

ICS A61K009-70

CC 63-7 (Pharmaceuticals)

IT 27234-90-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(adhesive taps for wound healing)

IT 9002-89-5, Poly(vinyl alcohol) 9003-04-7, Aronvis

9004-32-4, Cellogen 9004-64-2, Hydroxypropyl cellulose 9005-38-3

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(adhesive taps for wound healing)

IT 9003-01-4, Poly(acrylic acid)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(crosslinked; adhesive taps for wound healing)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS  
RECORD (1 CITINGS)

L40 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:347382 HCAPLUS Full-text

DOCUMENT NUMBER: 122:169692

ORIGINAL REFERENCE NO.: 122:31023a,31026a

TITLE: Eyebrow-protecting materials containing  
water-soluble polymers

INVENTOR(S): Oonishi, Masumi; Setoguchi, Juji

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 06321735	A	19941122	JP 1993-110513	199305 12

<--

PRIORITY APPLN. INFO.: JP 1993-110513

199305  
12

<--

AB The title materials, those are applied to eyebrows for protection of them when  
shaping them into forms as one likes by shaving, contain water-soluble

polymers chosen from poly(vinyl alc.), Na alginate (I), gelatin, Me cellulose, hydroxyethyl cellulose, CM-cellulose ( salts), poly(acrylic acid) (II) (salts), methoxyethylene-maleic anhydride copolymer, and poly(vinylpyrrolidone) 100, H<sub>2</sub>O 300-1000, and EtOH 100-600 weight parts. An eyebrow-protecting material containing Kimitsu Algin (I) 40, Junlon (II) 60, H<sub>2</sub>O 400, and EtOH 200 weight parts was formulated.

IT 9003-01-4, Poly(acrylic acid) 9003-04-7,

Aronvis 9003-39-8, Kollidon

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(eyebrow-protecting cosmetics containing water-soluble polymers, water, and ethanol)

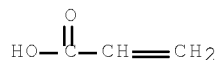
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

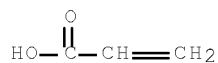
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



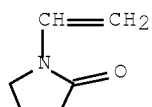
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 103719-07-9P

RL: BUU (Biological use, unclassified); FNU (Preparation, unclassified); BIOL (Biological study); FREP (Preparation); USES (Uses)

(preparation; eyebrow-protecting cosmetics containing water-soluble polymers,

water, and ethanol supported on foam materials adhered with acrylic polymer-based adhesive layers)

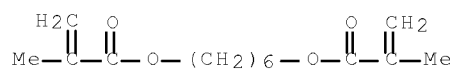
RN 103719-07-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,6-hexanediyl) ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 6606-59-3

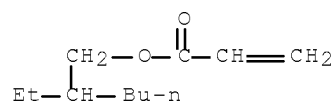
CMF C14 H22 O4



CM 2

CRN 103-11-7

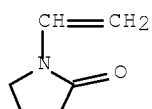
CMF C11 H20 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



IC ICM A61K007-02  
ICS A61K007-00; A61K007-032  
CC 62-4 (Essential Oils and Cosmetics)  
IT 64-17-5, Ethanol, biological studies 7732-18-5, Water, biological studies 9002-89-5, Gohsenol 9003-01-4, Poly(acrylic acid) 9003-04-7, Aronvis 9003-39-8, Kollidon 9004-32-4, Carboxymethyl cellulose 9004-62-0, Hydroxyethyl cellulose ether 9004-67-5, Methyl cellulose ether 9011-16-9, Maleic anhydride-methoxyethylene copolymer 67016-77-7, Junlon  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(eyebrow-protecting cosmetics containing water-soluble polymers, water, and ethanol)  
IT 103719-07-9P  
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation; eyebrow-protecting cosmetics containing water-soluble polymers, water, and ethanol supported on foam materials adhered with acrylic polymer-based adhesive layers)

L40 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:458481 HCAPLUS Full-text

DOCUMENT NUMBER: 121:58481

ORIGINAL REFERENCE NO.: 121:10553a,10556a

TITLE: EPR Study of Chain Rotational Dynamics in Dilute Aqueous Solutions of Spin-Labeled Poly(acrylic acid) at Different Degrees of Neutralization

AUTHOR(S): Pilar, Jan; Labsky, Jiri

CORPORATE SOURCE: Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, 162 06, Czech Rep.

SOURCE: Macromolecules (1994), 27(14), 3977-81

CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Spin-labeled poly(acrylic acid) (SL-PAA) was synthesized and ESR spectra of its dilute aqueous solns. were measured at different degrees of neutralization  $\alpha$  in the temperature range 273-353 K. The temperature dependence of parameters characterizing the segmental rotational mobility of SL-PAA and the internal rotation of the spin label relative to the polymer chain were determined by simulating the line shapes of the exptl. EPR spectra. The segmental rotational dynamics of SL-PAA was found to be nearly independent of its degree of neutralization. The absence of the Me group is probably responsible for higher segmental rotational mobility of SL-PAA at all degrees of neutralization and in the entire temperature range studied, when comparing with spin-labeled poly(methacrylic acid) (SL-PMA) under the same conditions. SL-PAA forms strong complexes with both poly(ethylene oxide) (PEO) and poly(N-vinylpyrrolidone) (PVP) in aqueous solns. at  $\alpha = 0.0$  and  $0.1$ . The complexes immediately precipitate from the solution under the authors' exptl. conditions. Complexation of SL-PAA neutralized to higher degrees ( $\alpha = 0.2-1.0$ ) with PEO or PVP in aqueous solns. was not observed

IT 9003-04-7, Poly(acrylic acid) sodium salt

RL: PRP (Properties)

(chain rotational dynamics of spin-labeled, with various degrees of neutralization, ESR study of)

RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

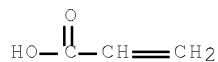
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 9003-39-8, Poly(N-vinylpyrrolidone)

RL: PRP (Properties)

(complexation of, with poly(acrylic acid), effect of neutralization degree on, chain dynamics in relation to)

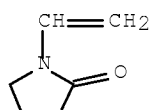
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 9003-01-4, Poly(acrylic acid)

RL: PRP (Properties)

(complexation of, with poly(vinylpyrrolidone) and polyoxyethylene, effect of neutralization degree on, chain dynamics in relation to)

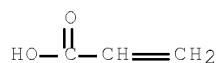
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2

IT 52284-08-9P, Poly(acrylic acid)-poly(ethylene oxide)  
complex 102685-02-9P, Poly(acrylic

acid)-poly(N-vinylpyrrolidone) complex

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, effect of neutralization degree on, chain dynamics  
in relation to)

RN 52284-08-9 HCAPLUS

CN 2-Propenoic acid, homopolymer, compd. with

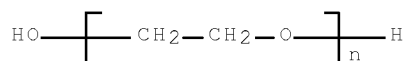
$\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) (CA INDEX  
NAME)

CM 1

CRN 25322-68-3

CMF (C2 H4 O)<sub>n</sub> H2 O

CCI PMS



CM 2

CRN 9003-01-4

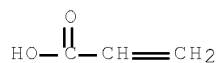
CMF (C3 H4 O2)<sub>x</sub>

CCI PMS

CM 3

CRN 79-10-7

CMF C3 H4 O2



RN 102685-02-9 HCAPLUS

CN 2-Propenoic acid, homopolymer, compd. with 1-ethenyl-2-pyrrolidinone  
homopolymer (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 9003-39-8

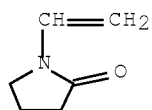
CMF (C6 H9 N O)<sub>x</sub>

CCI PMS

CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 9003-01-4

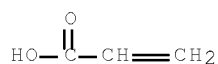
CMF (C3 H4 O2)x

CCI PMS

CM 4

CRN 79-10-7

CMF C3 H4 O2



CC 36-7 (Physical Properties of Synthetic High Polymers)

IT Electron spin resonance

(of poly(acrylic acid) sodium salt with various degrees of neutralization, chain rotational dynamics in relation to)

IT Chains, chemical

(rotational dynamics of, of spin-labeled poly(acrylic acid) sodium salt with various degrees of neutralization, ESR study of)

IT 9003-04-7, Poly(acrylic acid) sodium salt

RL: PRP (Properties)

(chain rotational dynamics of spin-labeled, with various degrees of neutralization, ESR study of)

IT 9003-39-8, Poly(N-vinylpyrrolidone) 25322-68-3

RL: PRP (Properties)

(complexation of, with poly(acrylic acid), effect of neutralization degree on, chain dynamics in relation to)

IT 9003-01-4, Poly(acrylic acid)

RL: PRP (Properties)

(complexation of, with poly(vinylpyrrolidone) and polyoxyethylene, effect of neutralization degree on, chain dynamics in relation to)

IT 52284-08-9F, Poly(acrylic acid)-poly(ethylene oxide)

complex 102635-02-9F, Poly(acrylic acid)-poly(N-vinylpyrrolidone) complex

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, effect of neutralization degree on, chain dynamics in relation to)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L40 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:436481 HCAPLUS Full-text

DOCUMENT NUMBER: 121:36481

ORIGINAL REFERENCE NO.: 121:6755a,6758a

TITLE: Gas-phase suspension graft polymerization and product thereof  
 INVENTOR(S): Zhang, Liansheng  
 PATENT ASSIGNEE(S): Heilongjiang University, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
CN 1074914	A	19930804	CN 1992-114805	19921218

PRIORITY APPLN. INFO.: <-- CN 1992-114805 19921218

AB The process producing acrylic acid graft copolymers useful for drilling fluid additives, paper strengtheners, water absorbents, etc., comprises stirring with additives a gas dispersant and a droplet dispersing phase containing polymers, monomers, initiators, mol. regulators, and crosslinking agents to form a gaseous suspension system and graft polymerizing in the dispersion phase while removing water and unreacted monomers by the gas dispersant which is now given off by the polymerization heat. Adding Ca(OH)<sub>2</sub> 3.7, Na<sub>2</sub>CO<sub>3</sub> 21.2, and sorbitol monooleate 1.0 g to a mixture containing corn starch 16.2, acrylamide 14.2, EDTA 2Na salt 0.1, and H<sub>2</sub>O 15 g, adding acrylic acid 36, AIBN 2.5, Ninol (lauric acid ethanolamide) 1.0 g, 2.0 mL 0.1 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, and 0.5 mL Ce(SO<sub>4</sub>)<sub>2</sub>, vigorously stirring for 2 min, heating the CO<sub>2</sub> dispersion system at 50°, connecting the system to a vacuum when the temperature rised to 140°, and stirring with 2.0 g sorbitol stearate gave 66.5 g granular product, which was used as water-retaining agent in corn seeding.

IT 106434-19-9P, Acrylamide-acrylic acid-starch graft copolymer 156017-21-9P 156017-22-0P 156017-23-1P 156017-25-3P 156017-26-4P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (manufacture of, by gas-phase suspension polymerization)  
 RN 106434-19-9 HCAPLUS  
 CN Starch, polymer with 2-propenamide and 2-propenoic acid, graft (CA INDEX NAME)

CM 1

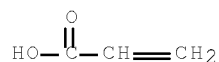
CRN 9005-25-8  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 79-10-7  
 CMF C3 H4 O2

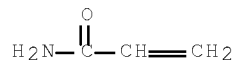




CM 3

CRN 79-06-1

CMF C3 H5 N O



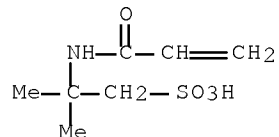
RN 156017-21-9 HCAPLUS

CN Starch, methyl ether, polymer with N,N'-methylenebis[2-propenamide],  
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,  
2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

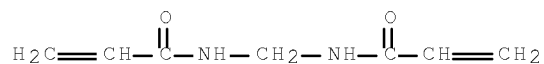
CMF C7 H13 N O4 S



CM 2

CRN 110-26-9

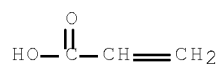
CMF C7 H10 N2 O2



CM 3

CRN 79-10-7

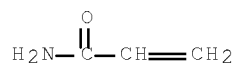
CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



CM 5

CRN 37189-22-3

CMF C H4 O . x Unspecified

CM 6

CRN 9005-25-8

CMF Unspecified

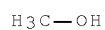
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 7

CRN 67-56-1

CMF C H4 O



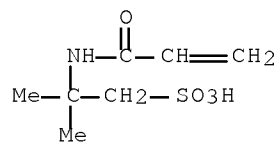
RN 156017-22-0 HCAPLUS

CN Cellulose, carboxymethyl ether, sodium salt, polymer with  
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,  
2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

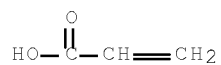
CRN 15214-89-8

CMF C7 H13 N O4 S



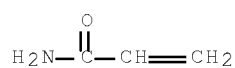
CM 2

CRN 79-10-7  
CMF C3 H4 O2



CM 3

CRN 79-06-1  
CMF C3 H5 N O



CM 4

CRN 9004-32-4  
CMF C2 H4 O3 . x Na . x Unspecified

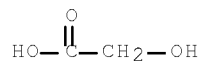
CM 5

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 6

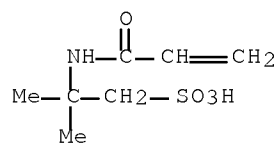
CRN 79-14-1  
CMF C2 H4 O3



RN 156017-23-1 HCAPLUS  
CN Cellulose, carboxymethyl ether, sodium salt, polymer with  
1-ethenyl-2-pyrrolidinone, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-  
propanesulfonic acid, 2-propenamide and 2-propenoic acid, graft  
(9CI) (CA INDEX NAME)

CM 1

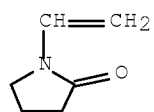
CRN 15214-89-8  
CMF C7 H13 N O4 S



CM 2

CRN 88-12-0

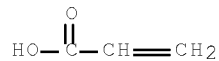
CMF C6 H9 N O



CM 3

CRN 79-10-7

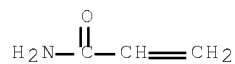
CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



CM 5

CRN 9004-32-4

CMF C2 H4 O3 . x Na . x Unspecified

CM 6

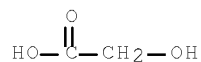
CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 7

CRN 79-14-1  
CMF C2 H4 O3

RN 156017-25-3 HCAPLUS

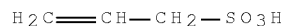
CN Starch, polymer with 2-propenamide, 2-propene-1-sulfonic acid and  
2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

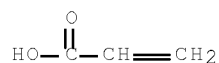
CRN 9005-25-8  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 1606-80-0  
CMF C3 H6 O3 S

CM 3

CRN 79-10-7  
CMF C3 H4 O2

CM 4

CRN 79-06-1  
CMF C3 H5 N O

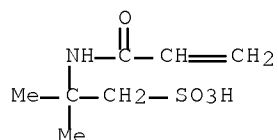
RN 156017-26-4 HCAPLUS

CN Starch, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

CRN 9005-25-8

CMF Unspecified

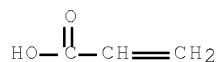
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08F251-00

CC 35-8 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 19, 38, 51

IT 106434-19-9P, Acrylamide-acrylic acid-starch graft copolymer 156017-21-9P 156017-22-0P

156017-23-1P 156017-25-3P 156017-26-4P

RL: IMF (Industrial manufacture); PREP

(Preparation)

(manufacture of, by gas-phase suspension polymerization)

L40 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1993:474576 HCAPLUS Full-text

DOCUMENT NUMBER: 119:74576

ORIGINAL REFERENCE NO.: 119:13425a,13428a

TITLE: Water absorptive fabric and its manufacture

INVENTOR(S): Umeda, Masanari; Sakuraba, Yukio; Baba, Hiroshi

PATENT ASSIGNEE(S): Tokai Rubber Industries, Ltd., USA; Sumitomo  
Electric Industries, Ltd.

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	
US 5204175	A	19930420	US 1991-711888	199106 07

<--

PRIORITY APPLN. INFO.: US 1991-711888

199106  
07

<--

AB Title fabric, having sufficient flexibility to be formed about a communication cable, contains a water absorptive polymeric layer which is prepared by the in situ reaction of a metal salt of acrylic acid, a crosslinking agent, and a water soluble resin. A composition containing Na acrylate 100, N,N'-methylenebisacrylamide 2, an initiator 0.2, polyethylene glycol 20, and water 100 parts was used to impregnated a nonwoven spunbonded polyester fabric and heated at 160° to give a substrate with excellent flexibility and a hygroscopic swelling ratio 2.5 (3 min).

IT 25359-44-8, N,N'-Methylenebis acrylamide-sodium acrylate  
copolymer

RL: USES (Uses)

(water-absorptive, fabric composites of, flexible, for tapes for  
communication cables)

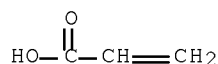
RN 25359-44-8 HCAPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with  
N,N'-methylenebis[2-propenamide] (CA INDEX NAME)

CM 1

CRN 7446-81-3

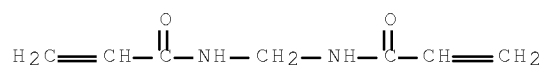
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 110-26-9  
CMF C7 H10 N2 O2



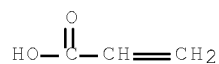
IT 9003-04-7P, Sodium polyacrylate 9003-05-8P,  
Polyacrylamide 9003-39-8P, Polyvinylpyrrolidone  
25086-89-9P, Vinyl acetate-vinylpyrrolidone copolymer  
RL: PREP (Preparation)  
(water-soluble in manufacture of water-absorptive flexible textile  
composites)  
RN 9003-04-7 HCAPLUS  
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
CMF (C3 H4 O2)x  
CCI PMS

CM 2

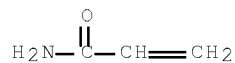
CRN 79-10-7  
CMF C3 H4 O2



RN 9003-05-8 HCAPLUS  
CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

CRN 79-06-1  
CMF C3 H5 N O

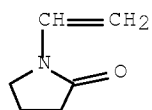


RN 9003-39-8 HCAPLUS  
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0  
CMF C6 H9 N O





RN 25086-89-9 HCAPLUS

CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone  
(CA INDEX NAME)

CM 1

CRN 108-05-4

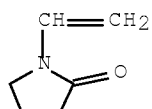
CMF C4 H6 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



IC ICM B32B027-04

ICS B32B027-18; B32B033-00; G02B006-44; H02G003-14

INCL 428288000

CC 40-10 (Textiles and Fibers)

ST water absorptive textile crosslinked polyacrylate; salt  
acrylate crosslinked water absorption; communication cable tape  
polyacrylate fabric composite

IT Acrylic polymers, preparation

RL: PREP (Preparation)

(carboxy-containing, metal salts, water-absorptive, fabric  
composites of, flexible, for tapes for communication cables)

IT 25359-44-8, N,N'-Methylenebis acrylamide-sodium acrylate  
copolymer

RL: USES (Uses)

(water-absorptive, fabric composites of, flexible, for tapes for  
communication cables)

IT 9002-89-5P, Poly(vinyl alcohol) 9002-98-6P 9003-04-7P,  
Sodium polyacrylate 9003-05-8P, Polyacrylamide  
9003-39-8P, Polyvinylpyrrolidone 25086-89-9P,  
Vinyl acetate-vinylpyrrolidone copolymer 25322-68-3P, Polyethylene  
glycol

RL: PREP (Preparation)

(water-soluble in manufacture of water-absorptive flexible textile  
composites)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1993:193892 HCAPLUS Full-text

DOCUMENT NUMBER: 118:193892

ORIGINAL REFERENCE NO.: 118:33285a,33288a

TITLE: Emulsifier-free polymer ~~dispersions~~ and their preparation for use in paper coatings

INVENTOR(S): Bankowsky, Heinz Hilmar; Rau, Maria Gyopar; Schumacher, Karl Heinz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 11 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 4113839	A1	19921029	DE 1991-4113839	199104 27
EP 511520	A1	19921104	EP 1992-105871	199204 04
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE JP 05117310	A	19930514	JP 1992-102913	199204 22
CA 2066988	A1	19921028	CA 1992-2066988	199204 24
PRIORITY APPLN. INFO.:		DE 1991-4113839	A	199104 27

AB The title ~~dispersions~~ are prepared by radical polymerization of ethylenically unsatd. monomer in an aqueous medium containing a polymer, the monomers and polymerization ~~initiator~~ being added simultaneously during polymerization An aqueous solution containing 40:60 acrylic acid-styrene copolymer ammonium salt and ammonium persulfate (I) was treated simultaneously with I solution and styrene at 85° to give a stable polymer ~~dispersion~~ having average particle size 135 µm.

IT 9003-05-8P, Polyacrylamide 9003-39-8P,  
Poly(vinyl pyrrolidinone) 9003-42-3P, Poly(ethyl methacrylate) 9003-49-0P, Poly(butyl acrylate) 9003-63-8P, Poly(butyl methacrylate) 9003-77-4P,  
Poly(2-ethylhexyl acrylate) 9011-14-7P, Poly(methyl methacrylate) 25189-00-8P, Poly(tert-butyl methacrylate) 25232-27-3P, Poly(tert-butyl acrylate) 25767-47-9P

, Butyl acrylate-styrene copolymer 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer 26246-92-4P, Poly(lauryl acrylate) 26335-74-0P, Poly(isobutyl acrylate) 27103-47-5P, Poly(hexyl acrylate) 27155-22-2P, Acrylic acid-methyl acrylate-methyl methacrylate copolymer 29132-58-9P, Acrylic acid-maleic acid copolymer 35209-54-2P, Acrylic acid-styrene copolymer ammonium salt 38139-94-5P 55141-01-0P, Poly(2-acrylamido-2-methylpropanesulfonic acid) sodium salt 60472-42-6P, Acrylic acid-maleic acid copolymer sodium salt

RL: IMF (Industrial manufacture); PREP

(Preparation)

(preparation of emulsifier-free dispersion of, for coating paper)

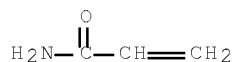
RN 9003-05-8 HCAPLUS

CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

CRN 79-06-1

CMF C3 H5 N O



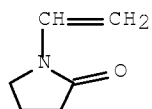
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



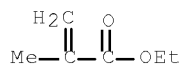
RN 9003-42-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 97-63-2

CMF C6 H10 O2



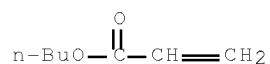
RN 9003-49-0 HCAPLUS

CN 2-Propenoic acid, butyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 141-32-2

CMF C7 H12 O2



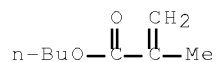
RN 9003-63-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 97-88-1

CMF C8 H14 O2



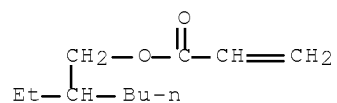
RN 9003-77-4 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2



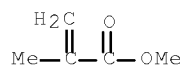
RN 9011-14-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 80-62-6

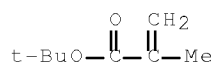
CMF C5 H8 O2



RN 25189-00-8 HCAPLUS  
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, homopolymer  
(CA INDEX NAME)

CM 1

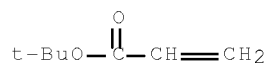
CRN 585-07-9  
CMF C8 H14 O2



RN 25232-27-3 HCAPLUS  
CN 2-Propenoic acid, 1,1-dimethylethyl ester, homopolymer (CA INDEX NAME)

CM 1

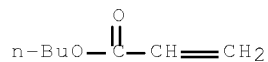
CRN 1663-39-4  
CMF C7 H12 O2



RN 25767-47-9 HCAPLUS  
CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene (CA INDEX NAME)

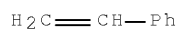
CM 1

CRN 141-32-2  
CMF C7 H12 O2



CM 2

CRN 100-42-5  
CMF C8 H8

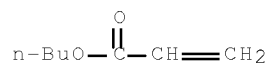


RN 25852-37-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl  
2-propenoate (CA INDEX NAME)

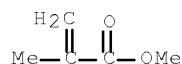
CM 1

CRN 141-32-2  
CMF C7 H12 O2



CM 2

CRN 80-62-6  
CMF C5 H8 O2

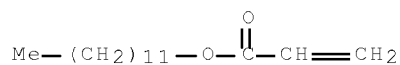


RN 26246-92-4 HCAPLUS

CN 2-Propenoic acid, dodecyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 2156-97-0  
CMF C15 H28 O2

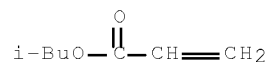


RN 26335-74-0 HCAPLUS

CN 2-Propenoic acid, 2-methylpropyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 106-63-8  
CMF C7 H12 O2

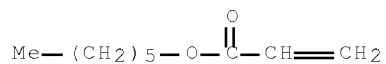


RN 27103-47-5 HCAPLUS

CN 2-Propenoic acid, hexyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 2499-95-8  
CMF C9 H16 O2

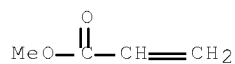


RN 27155-22-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methyl  
2-propenoate and 2-propenoic acid (CA INDEX NAME)

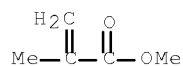
CM 1

CRN 96-33-3  
CMF C4 H6 O2



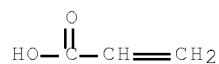
CM 2

CRN 80-62-6  
CMF C5 H8 O2



CM 3

CRN 79-10-7  
CMF C3 H4 O2



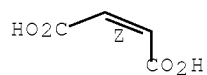
RN 29132-58-9 HCAPLUS

CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid (CA INDEX  
NAME)

CM 1

CRN 110-16-7  
CMF C4 H4 O4

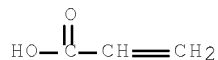
Double bond geometry as shown.



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 35209-54-2 HCAPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene, ammonium salt (CA INDEX NAME)

CM 1

CRN 25085-34-1

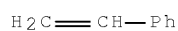
CMF (C8 H8 . C3 H4 O2)x

CCI PMS

CM 2

CRN 100-42-5

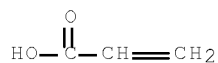
CMF C8 H8



CM 3

CRN 79-10-7

CMF C3 H4 O2



RN 38139-94-5 HCAPLUS

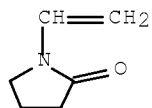
CN 2-Propenamide, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O

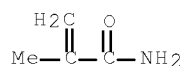




CM 2

CRN 79-39-0

CMF C4 H7 N O



RN 55141-01-0 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 27119-07-9

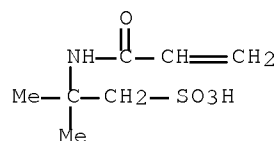
CMF (C7 H13 N O4 S)x

CCI PMS

CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 60472-42-6 HCAPLUS

CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid, sodium salt (CA INDEX NAME)

CM 1

CRN 29132-58-9

CMF (C4 H4 O4 . C3 H4 O2)x

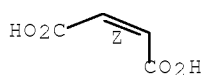
CCI PMS

CM 2

CRN 110-16-7

CMF C4 H4 O4

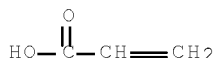
Double bond geometry as shown.



CM 3

CRN 79-10-7

CMF C3 H4 O2



IC ICM C08F002-16  
ICS C08F020-00; C08F018-00; C08F016-12; C08F014-00; C08F012-00;  
C08F010-00; C09D005-02; D21H019-12  
ICA C08F002-18; C08F002-22; C08F020-10; C08F020-42; C08F020-54  
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)  
Section cross-reference(s): 37, 42  
ST vinyl polymer dispersion coating paper; styrene polymer  
dispersion coating paper; acrylic polymer dispersion  
coating paper; polymn radical dispersion emulsifier free  
IT Paper  
(coatings for, emulsifier-free aqueous polymer dispersions  
for)  
IT Coating materials  
(dispersion, vinyl polymers, emulsifier-free, for  
paper)  
IT Polymerization catalysts  
(radical, for vinyl monomers, for emulsifier-free  
dispersions for paper coatings)  
IT 7727-54-0, Ammonium peroxydisulfate  
RL: CAT (Catalyst use); USES (Uses)  
(catalysts, for polymerization, for emulsifier-free vinyl polymer  
dispersions)  
IT 9003-05-8P, Polyacrylamide 9003-39-8P,  
Poly(vinyl pyrrolidinone) 9003-42-3P, Poly(ethyl  
methacrylate) 9003-49-0P, Poly(butyl acrylate)  
9003-53-6P, Polystyrene 9003-63-8P, Poly(butyl  
methacrylate) 9003-77-4P, Poly(2-ethylhexyl acrylate)  
9004-62-0P 9011-14-7P, Poly(methyl methacrylate)  
25153-40-6P, Maleic acid-methyl vinyl ether copolymer  
25189-00-8P, Poly(tert-butyl methacrylate) 25213-24-5P  
25232-27-3P, Poly(tert-butyl acrylate) 25322-68-3P,  
Poly(ethylene oxide) 25767-47-9P, Butyl acrylate-styrene  
copolymer 25852-37-3P, Butyl acrylate-methyl  
methacrylate copolymer 26246-92-4P, Poly(lauryl  
acrylate) 26335-74-0P, Poly(isobutyl acrylate)  
27103-47-5P, Poly(hexyl acrylate) 27155-22-2P,  
Acrylic acid-methyl acrylate-methyl methacrylate copolymer  
29132-58-9P, Acrylic acid-maleic acid copolymer  
35209-54-2P, Acrylic acid-styrene copolymer ammonium

salt 38139-94-5P 55141-01-0P,  
 Poly(2-acrylamido-2-methylpropanesulfonic acid) sodium salt  
 56619-17-1P, Diisobutylene-maleic acid copolymer sodium salt  
 60472-42-6P, Acrylic acid-maleic acid copolymer sodium  
 salt

RL: IMF (Industrial manufacture); PREP  
 (Preparation)

(preparation of emulsifier-free dispersion of, for coating  
 paper)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS  
 RECORD (10 CITINGS)

L40 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:409679 HCAPLUS Full-text

DOCUMENT NUMBER: 115:9679

ORIGINAL REFERENCE NO.: 115:1883a,1886a

TITLE: Phosphonomethylated poly(vinyl amines) as wash  
 formulation additive and water-treatment  
 chemicals

INVENTOR(S): Mohr, Juergen; Oppenlaender, Knut; Denzinger,  
 Walter; Hartmann, Heinrich; Baur, Richard;  
 Gousetis, Charalampos; Kud, Alexander

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 17 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 3926059	A1	19910214	DE 1989-3926059	198908 07
			<--	
DE 3926059	C2	19980129		
WO 9102011	A1	19910221	WO 1990-EP1284	199008 06
			<--	
W: JP, US				
JP 04506981	T	19921203	JP 1990-512125	199008 06
			<--	
JP 2880287	B2	19990405		
US 6264839	B1	20010724	US 1993-89436	199307 12
			<--	
PRIORITY APPLN. INFO.:			DE 1989-3926059	A 198908 07
			<--	
			WO 1990-EP1284	W 199008 06
			<--	

US 1991-775929

B3

199111

06

&lt;--

AB The title polymers, having repeat units  $\text{CH}_2\text{CHN}(\text{R}_1)\text{CH}_2\text{P}(\text{:O})(\text{OX})_2$  [ $\text{R}_1 = \text{H}$ , C1-6 alkyl,  $\text{CH}_2\text{P}(\text{:O})(\text{OX})_2$ ;  $\text{X} = \text{H}$ , alkali metal, ammonium, alkaline earth metal], are prepared and are useful as water-treatment chems., laundry bleach stabilizers, and detergent formulation chems. Thus, 500 g of isopropanol was heated to boiling, and, over 3 h, a solution of 270.4 g acrylic acid and 29.6 g N-vinylformamide dissolved in 100 g isopropanol were added along with a solution of 9 g tert-Bu perethylhexanoate in 100 g isopropanol, the isopropanol azeotropically distilled off, producing a 27% aqueous polymer solution, 125 parts of which was reacted with 150 parts concentrated HCl at reflux and esterified with phosphorous acid and neutralized with NaOH, producing a solid product which had K value (Na salt, 1% in  $\text{H}_2\text{O}$ ) 25.

IT 113986-34-8DP, N-Vinylformamide-N-vinylpyrrolidone copolymer, hydrolysis products, phosphonomethylated products, salts 114239-36-0DP, hydrolysis products, phosphonomethylated products, salts 134367-40-1DP, hydrolysis products, phosphonomethylated products, salts 134367-41-2DP, hydrolysis products, phosphonomethylated products, salts  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of, as laundry bleach stabilizers and water-treatment chems.)

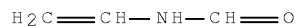
RN 113986-34-8 HCAPLUS

CN Formamide, N-ethenyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 13162-05-5

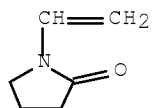
CMF C3 H5 N O



CM 2

CRN 88-12-0

CMF C6 H9 N O

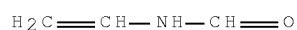


RN 114239-36-0 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with N-ethenylformamide (CA INDEX NAME)

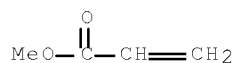
CM 1

CRN 13162-05-5  
CMF C3 H5 N O



CM 2

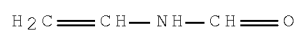
CRN 96-33-3  
CMF C4 H6 O2



RN 134367-40-1 HCAPLUS  
CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

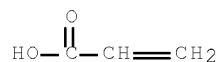
CM 1

CRN 13162-05-5  
CMF C3 H5 N O



CM 2

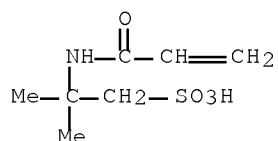
CRN 79-10-7  
CMF C3 H4 O2



RN 134367-41-2 HCAPLUS  
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-,  
polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 15214-89-8  
CMF C7 H13 N O4 S



CM 2

CRN 13162-05-5

CMF C3 H5 N O



IC ICM C08F030-02  
ICS C08F008-40; C02F001-68  
ICA C08F026-02; B01J039-20; B01F017-52; C11D003-37  
CC 35-8 (Chemistry of Synthetic High Polymers)  
Section cross-reference(s): 46, 61  
IT 1310-73-2DP, Sodium hydroxide, salts with  
phosphonomethylated poly(vinylamines) 13598-36-2DP, Phosphorous  
acid, reaction products with hydrolyzed vinylformamide polymers  
72018-12-3DP, N-Vinylformamide homopolymer, hydrolysis products,  
phosphonomethylated products, salts 108941-57-7DP,  
hydrolysis products, phosphonomethylated products, salts  
113986-34-8DP, N-Vinylformamide-N-vinylpyrrolidone  
copolymer, hydrolysis products, phosphonomethylated products,  
salts 114239-36-0DP, hydrolysis products,  
phosphonomethylated products, salts  
134367-40-1DP, hydrolysis products, phosphonomethylated  
products, salts 134367-41-2DP, hydrolysis  
products, phosphonomethylated products, salts  
134367-42-3DP, hydrolysis products, phosphonomethylated products,  
salts 134367-43-4DP, hydrolysis products,  
phosphonomethylated products, salts 134367-46-7DP,  
hydrolysis products, phosphonomethylated products, salts  
RL: IMF (Industrial manufacture); PREP  
(Preparation)  
(manufacture of, as laundry bleach stabilizers and water-treatment  
chems.)  
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS  
RECORD (4 CITINGS)  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L40 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1985:205767 HCAPLUS Full-text  
DOCUMENT NUMBER: 102:205767  
ORIGINAL REFERENCE NO.: 102:32255a,32258a  
TITLE: Studies on special type surfactants. XIV.  
Preparation of telomer-type surfactants from  
vinylpyrrolidone and methyl acrylate and their  
application to detergent builders

AUTHOR(S): Yagami, Kazuo; Hotuta, Osamu; Nakagawa, Mayumi;  
Yamada, Kimiho  
CORPORATE SOURCE: Fac. Living Sci., Kumamoto Women's Univ.,  
Kumamoto, Japan  
SOURCE: Yukagaku (1985), 34(3), 191-7  
CODEN: YKGKAM; ISSN: 0513-398X  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese

AB Telomers were prepared from vinylpyrrolidone, Me acrylate, and C12H25SH in C6H6 with AIBN as the initiator and then saponified to various degree with NaOH. The critical micelle concentration and chelating power of the telomers increased with increasing degree of saponification, but the lime soap dispersing power, Orange OT solubilization, and antiredeposition power decreased. Surface tension and CaCO3 dispersion ability were highest at 50 mol% saponification. The detergency of the detergents prepared from the telomers, builders, and LAS or soap decreased as the degree of saponification increased. With regard to the effects of functional groups on detergency, the combination of pyrrolidone and methoxycarbonyl groups was superior to individual carboxy, carbamoyl, and pyrrolidone groups or their combinations. The telomers had the strongest detergency effect when the d.p. was 10. The telomers were effective when present in 5-10% concentration in the detergent.

IT 96538-00-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation and detergent builder performance of)

RN 96538-00-0 HCAPLUS

CN 2-Propenoic acid, methyl ester, telomer with 1-dodecanethiol and 1-ethenyl-2-pyrrolidinone, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 112-55-0  
CMF C12 H26 S

HS—(CH<sub>2</sub>)<sub>11</sub>—Me

CM 2

CRN 27155-03-9  
CMF (C6 H9 N O . C4 H6 O2)x  
CCI PMS

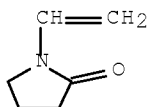
CM 3

CRN 96-33-3  
CMF C4 H6 O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O



CC 46-5 (Surface Active Agents and Detergents)  
Section cross-reference(s): 35  
IT Detergents  
(builders for, dodecanethiol-Me acrylate-vinylpyrrolidone telomer  
sodium salt as)  
IT 96538-00-0P  
RL: IMF (Industrial manufacture); TEM (Technical or  
engineered material use); PREP (Preparation); USES (Uses)  
(preparation and detergent builder performance of)

L40 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1983:113761 HCAPLUS Full-text  
DOCUMENT NUMBER: 98:113761  
ORIGINAL REFERENCE NO.: 98:17233a,17236a  
TITLE: Absorbents for blood and serous body fluids  
INVENTOR(S): Chmelir, Miroslav; Dahmen, Kurt; Hoffmann,  
Georg; Werner, Georg  
PATENT ASSIGNEE(S): Chemische Fabrik Stockhausen G.m.b.H., Fed. Rep.  
Ger.  
SOURCE: Ger. Offen., 16 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 3128100	A1	19830127	DE 1981-3128100	198107 16
			<--	
DE 3128100	C2	19860522		
WO 8300289	A1	19830203	WO 1982-DE146	198207 10
			<--	
W: JP, US				
EP 71063	A1	19830209	EP 1982-106196	198207 10
			<--	
EP 71063	B1	19851211		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 58501107	T	19830714	JP 1982-502173	198207 10
			<--	



September 12, 2009

10/591,796

193

JP 05081263  
AT 16891

B 19931112  
T 19851215

AT 1982-106196

198207  
10

PRIORITY APPLN. INFO.:

<--  
DE 1981-3128100 A

198107  
16

<--  
EP 1982-106196 A

198207  
10

<--  
WO 1982-DE146 W

198207  
10

AB Absorbents for blood and serous body fluids consist of 2 components, 25-98 weight% A and 2-75 weight% B, in which the component A is a crosslinked, water-swellaable, synthetic or natural polymer or copolymer and component B is an inorg. or organic solid at room temperature and is H2O-soluble The absorbents can be utilized for absorbing waste products and in sanitary napkins. Thus, a mixture of acrylic acid 328, and N,N'-methylenebis(acrylamide) 2.6 g was dissolved in 980 g H2O and the solution treated with 127.5 g NaHCO3 at pH 4.0 and polymerized in the presence of a mixture of azobis(amidinepropane)-2HCl 0.36, K2S2O8 0.73, Na pyrosulfate 1.34 and Fe(II) gluconate 0.06 g. The polymer gel obtained was washed, dried and pulverized. KCl and this polymer were mixed in a ratio of 1:2 and utilized as the absorbent. The rate of distribution of blood in the absorbent was determined

IT 9003-04-7 25085-02-3 77019-71-7

RL: BIOL (Biological study)  
(absorbent for blood or serous body fluids)

RN 9003-04-7 HCAPLUS

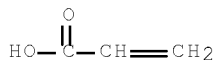
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4  
CMF (C3 H4 O2)x  
CCI PMS

CM 2

CRN 79-10-7  
CMF C3 H4 O2



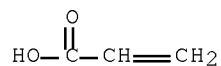
RN 25085-02-3 HCAPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na

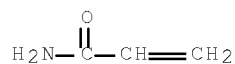


● Na

CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 77019-71-7 HCAPLUS

CN 2-Propenoic acid, polymer with  
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,  
sodium salt (CA INDEX NAME)

CM 1

CRN 40623-75-4

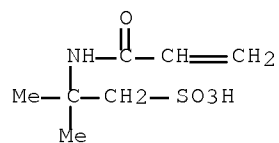
CMF (C7 H13 N O4 S . C3 H4 O2)x

CCI PMS

CM 2

CRN 15214-89-8

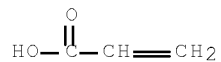
CMF C7 H13 N O4 S



CM 3

CRN 79-10-7

CMF C3 H4 O2



IT 30280-72-9DP, reaction products with ammonia

54843-66-2P 84943-77-1P 84943-79-3P

84943-81-7P 85004-41-7P

RL: PREP (Preparation)

(preparation of, as absorbent for blood or serous body fluids)

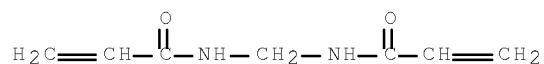
RN 30280-72-9 HCAPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide] (CA INDEX NAME)

CM 1

CRN 110-26-9

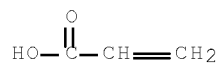
CMF C7 H10 N2 O2



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 54843-66-2 HCAPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide], sodium salt (CA INDEX NAME)

CM 1

CRN 30280-72-9

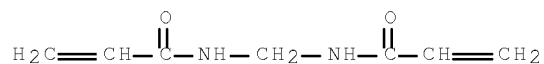
CMF (C7 H10 N2 O2 . C3 H4 O2)x

CCI PMS

CM 2

CRN 110-26-9

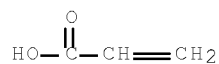
CMF C7 H10 N2 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



RN 84943-77-1 HCAPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide, sodium salt (CA INDEX NAME)

CM 1

CRN 27791-59-9

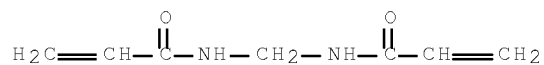
CMF (C7 H10 N2 O2 . C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

CRN 110-26-9

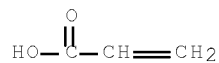
CMF C7 H10 N2 O2



CM 3

CRN 79-10-7

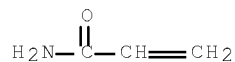
CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



RN 84943-79-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2,2-bis[(2-propenyloxy)methyl]-1-butanol and 1-ethenyl-2-pyrrolidinone, sodium salt (9CI) (CA INDEX NAME)

CM 1

September 12, 2009

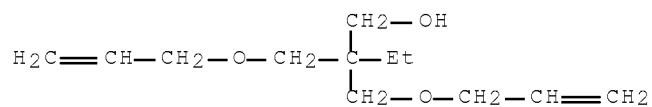
10/591,796

197

CRN 84943-78-2  
CMF (C12 H22 O3 . C6 H9 N O . C4 H6 O2)x  
CCI PMS

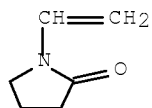
CM 2

CRN 682-09-7  
CMF C12 H22 O3



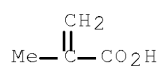
CM 3

CRN 88-12-0  
CMF C6 H9 N O



CM 4

CRN 79-41-4  
CMF C4 H6 O2



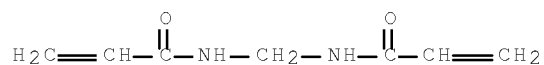
RN 84943-81-7 HCAPLUS  
CN 2-Propenoic acid, polymer with 1-ethenyl-2-pyrrolidinone and  
N,N'-methylenebis[2-propenamide], sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 84943-80-6  
CMF (C7 H10 N2 O2 . C6 H9 N O . C3 H4 O2)x  
CCI PMS

CM 2

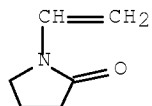
CRN 110-26-9  
CMF C7 H10 N2 O2



CM 3

CRN 88-12-0

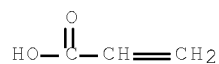
CMF C6 H9 N O



CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 85004-41-7 HCAPLUS

CN 2-Propenoic acid, polymer with  
 3,3',3'',3'''-[1,2-ethanediylidenetetrakis(oxy)]tetrakis[1-propene]  
 and [(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, sodium salt  
 (9CI) (CA INDEX NAME)

CM 1

CRN 85004-40-6

CMF (C14 H22 O4 . C6 H11 N O4 S . C3 H4 O2)x

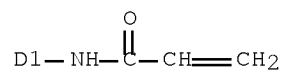
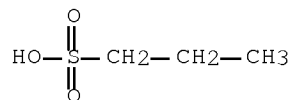
CCI PMS

CM 2

CRN 70069-82-8

CMF C6 H11 N O4 S

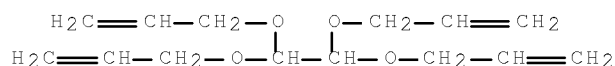
CCI IDS



CM 3

CRN 16646-44-9

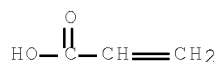
CMF C14 H22 O4



CM 4

CRN 79-10-7

CMF C3 H4 O2



IC B01J020-22; A61F013-18; A61F013-20

CC 63-7 (Pharmaceuticals)

ST absorbent blood body fluid; polymer salt absorbent body fluid; sanitary napkin absorbent

IT Absorbents

(polymers and salts, for absorption of blood or serous body fluids)

IT Surgical dressings and goods

(sanitary napkins, absorbents in, polymers and salts in)

IT 62-56-6, biological studies 9003-04-7 9004-32-4

9004-34-6, biological studies 9005-25-8, biological studies

9032-42-2 25085-02-3 77019-71-7

RL: BIOL (Biological study)

(absorbent for blood or serous body fluids)

IT 30280-72-9DP, reaction products with ammonia

54843-66-2P 84943-77-1P 84943-79-3P

84943-81-7P 85004-41-7P

RL: PREP (Preparation)

(preparation of, as absorbent for blood or serous body fluids)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1978:568960 HCAPLUS Full-text

DOCUMENT NUMBER: 89:168960

ORIGINAL REFERENCE NO.: 89:26117a,26120a

TITLE: Hair preparations

PATENT ASSIGNEE(S): La Maur, Inc., USA

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

September 12, 2009

10/591,796

200

LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 53101541	A	19780905	JP 1977-16633	197702 16

PRIORITY APPLN. INFO.: <-- JP 1977-16633 A 197702  
16

AB Hair preps. comprise salts of copolymers of CH<sub>2</sub>:CMeCON-N+Me<sub>2</sub>CH<sub>2</sub>CH(OH)Me(I) (1-20%), N-vinylpyrrolidine (8-45%) and vinyl acetate (35-89%) as main ingredient. The preps. are H<sub>2</sub>O (moisture)-resistant, but dispersible in acidic or alkaline solns. and soluble in EtOH. Thus, I, N-vinylpyrrolidine, vinyl acetate, adipic acid, initiators and solvents were mixed and stirred to form N-[dimethyl(2-hydroxypropyl)ammonium]methacrylimide-vinyl acetate-N-vinylpyrrolidine copolymer adipic acid salt [ 62599-89-7].

IT 62599-89-7P  
 RL: PREP (Preparation)  
 (preparation of, for hair preps.)

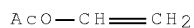
RN 62599-89-7 HCAPLUS

CN Hydrazinium, 1-(2-hydroxypropyl)-1,1-dimethyl-2-(2-methyl-1-oxo-2-propenyl)-, hexanedioate (2:1) (salt), polymer with ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 108-05-4

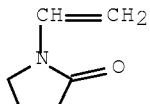
CMF C4 H6 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 62599-87-5

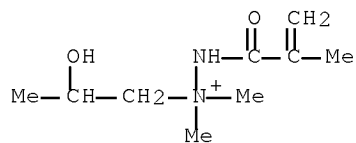


CMF C9 H19 N2 O2 . 1/2 C6 H8 O4

CM 4

CRN 62599-86-4

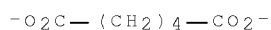
CMF C9 H19 N2 O2



CM 5

CRN 764-65-8

CMF C6 H8 O4



IC A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT ~~62599-86-4~~

RL: PREF (Preparation)

(preparation of, for hair prepns.)

L40 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1968:30366 HCAPLUS Full-text

DOCUMENT NUMBER: 68:30366

ORIGINAL REFERENCE NO.: 68:5935a,5938a

TITLE: Preparation of water-containing, granular, acrylate homopolymers and copolymers

INVENTOR(S): Miura, Shigeyoshi; Mokuzen, Shizuo

PATENT ASSIGNEE(S): Toa Gosei Chemical Industry Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 4 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 42009656	B4	19670518	JP	196309
				30

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AB Arbitrary granular size of H<sub>2</sub>O-containing polyacrylate can be obtained by suspension polymerization of  $\alpha,\beta$ -ethylenic unsatd. monomer by using a water-soluble initiator and 0.01-5.0% cellulose derivative as a protective colloid in the mixed medium of water with immiscible halogenated olefin and oliphatic,

aromatic, or alicyclic hydrocarbon in which the sp. gr. of the latter two immiscible solvents is not greater than that of the aqueous solution of the acrylate monomer. Thus, 30% Na acrylate 20, trichloroethylene 49.5, toluene 30.5, and cellulose acetate butyrate 0.8 part are mixed and heated at 50° for 3 hrs. after addition of 0.006 part K persulfate. The polymer deposited was collected, filtered, and air-dried for 30 min., giving a granular 30% Na polyacrylate-containing polymer, of 0.5 mm. transparent, pearl-like beads, whose intrinsic viscosity was 0.75 dl./g. in a 2N-NaOH solution

IT 25085-02-3P 25721-79-3P 29755-80-4P

RL: PREP (Preparation)

(manufacture of granular)

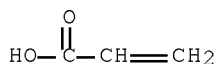
RN 25085-02-3 HCAPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na

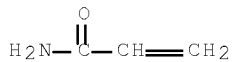


● Na

CM 2

CRN 79-06-1

CMF C3 H5 N O



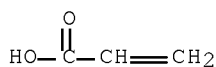
RN 25721-79-3 HCAPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na

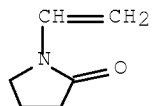


● Na

CM 2

CRN 88-12-0

CMF C6 H9 N O



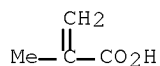
RN 29755-80-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, sodium salt (1:1), polymer with  
2-methyl-2-propenamido (CA INDEX NAME)

CM 1

CRN 5536-61-8

CMF C4 H6 O2 . Na

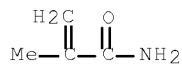


● Na

CM 2

CRN 79-39-0

CMF C4 H7 N O



INCL 26B011.4

CC 35 (Synthetic High Polymers)

IT Acrylic acid, sodium salt, polymer with trichloroethylene  
Ethylene, trichloro-, polymer with sodium acrylate

RL: USES (Uses)

(manufacture of granular)

IT 25085-02-3P 25721-79-3P 29755-80-4P

RL: PREP (Preparation)

(manufacture of granular)

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